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U. S. DEPARTMENT OF COMMERCE
BUREAU OF FISHERIES

FISHERY INDUSTRIES OF THE UNITED STATES
1938

By R. H. FIEDLER

ADMINISTRATIVE REPORT No. 37

U. S. DEPARTMENT OF COMMERCE
HARRY L. HOPKINS, Secretary

BUREAU OF FISHERIES
CHARLES E. JACKSON, Acting Commissioner

Administrative Report No. 37

FISHERY INDUSTRIES OF THE UNITED STATES

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APPENDIX III TO REPORT OF COMMISSIONER OF FISHERIES
FOR THE FISCAL YEAR 1939

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ADMINISTRATIVE REPORT SERIES

Since the beginning of the Administrative Report Series, considerable confusion has arisen concerning the system of numbering the separates composing it. Inasmuch as the Reports of the Divisions vary in order from year to year, many have found their designations as "Appendix No. I, II, III, or IV" very confusing. To relieve this, it has been decided to number them as "Administrative Report No. —." Inasmuch as 20 separates had already been printed in this series before starting the numbers, it was deemed advisable to begin the numbering with Administrative Report No. 21. Of course, numbers cannot be printed on those already off the press, but for the information of those who wish to know what the first 25 were, they are numbered for filing purposes as follows:

No. 1. Report, Commissioner of Fisheries, 1931.
No. 2. Alaska Fishery and Fur-Seal Industries, 1930.
No. 3. Fishery Industries of the United States, 1930.
No. 4. Progress in Biological Inquiries, 1930.
No. 5. Propagation and Distribution of Food Fishes, 1931.
No. 6. Report, Commissioner of Fisheries, 1932.
No. 7. Alaska Fishery and Fur-Seal Industries, 1931.
No. 8. Fishery Industries of the United States, 1931.
No. 9. Progress in Biological Inquiries, 1931.
No. 10. Propagation and Distribution of Food Fishes, 1932.
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No. 12. Progress in Biological Inquiries, 1932.
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No. 16. Alaska Fishery and Fur-Seal Industries, 1933.
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No. 18. Propagation and Distribution of Food Fishes, 1934.
No. 19. Alaska Fishery and Fur-Seal Industries, 1934.
No. 20. Fishery Industries of the United States, 1934.
No. 21. Progress in Biological Inquiries, 1934.
No. 22. Propagation and Distribution of Food Fishes, 1935.
No. 23. Alaska Fishery and Fur-Seal Industries, 1935.
No. 24. Fishery Industries of the United States, 1935.
No. 25. Propagation and Distribution of Food Fishes, 1936.

Note that the last Commissioner's Report was for 1932. Since then its place has been taken by a reprint from the report of the Secretary of Commerce under the title "Bureau of Fisheries." Inasmuch as it is no longer a Bureau publication, it is not numbered; but it will be supplied to any who request the Report of the Commissioner for any year since 1932.

FISHERY INDUSTRIES OF THE UNITED STATES, 1938 [1]

By R. H. FIEDLER, *Chief, Division of Fishery Industries*

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[1] Administrative Report No. 37, Appendix III to the Report of the Commissioner of Fisheries, 1939. Approved for publication, June 12, 1939.

FOREWORD

This report constitutes a summary of the activities of the Division of Fishery Industries, as well as a review of the fishery statistics collected by the Division during the past year. As its name indicates, this Division of the Bureau is concerned with the activities and welfare of the commercial fisheries and fishery industries and the fishermen and shoresmen engaged therein; the fish canning and preserving industries; and the trade in fishery products. Its functions include the conduct of studies or activities: (1) To determine the extent and magnitude of our aquatic resources and the commercial importance of our fishery industries; (2) to learn the economic condition of fishermen and shoresmen engaged in the fishery industry, their place in the national economy, and what measures can be taken to improve their well-being; (3) to determine the character, utility, and effectiveness of different forms of fishing apparatus and vessels, suggest improvements therein, and discourage the use of those forms which are unnecessarily destructive or unprofitable; (4) to learn the effect of fishing on the supply of fish and suggest measures to promote orderly and sustained production; (5) to study and develop fisheries for hitherto unutilized fishes; (6) to investigate the preservation of fishery products, suggest improved methods, and discourage wasteful practices in this field; (7) to ascertain what use can be made of aquatic products not now utilized to economic advantage; (8) to inquire into the nutritive value of aquatic foods for man and his domestic animals, and promote the consumption of these foods; (9) to ascertain the means and methods of transporting fishery products on land and sea and recommend economical practices; (10) to inquire into the condition and extent of the wholesale and retail trade in fishery products and promote the more orderly marketing of our fishery harvest; (11) to introduce useful foreign methods or processes of capture, preservation, utilization, or marketing fishery products; (12) to handle matters relative to the administration of the act which authorizes cooperative associations of producers of aquatic products; and (13) to conduct the fishery market news service authorized by act of Congress in 1937.

Results of the various technological, economic, and marketing investigations carried on by the Division are published in separate documents as each project is completed, and a brief résumé of each current project is contained in this report. Information obtained from statistical surveys is published in part 2 of this report, which includes all the detailed statistical information that has become available since issuance of the previous report [2] together with such summarized statements and interpretations of the statistics as are deemed significant and useful.

Part 1. OPERATIONS OF THE DIVISION

COOPERATION WITH OTHER FEDERAL AGENCIES

It has been the established policy of the Bureau of Fisheries and of this Division to cooperate with other Federal agencies wherever the activities are such that mutual information can be exchanged with advantage or where, by working cooperatively, the results of such mutual work may be furthered or its ends made more effective and valuable.

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[2] Fishery Industries of the United States, 1937, by R. H. Fiedler: Appendix III to the Report of the U. S. Commissioner of Fisheries for 1938, pp. 151-460.

Thus, the technologists of this Division gave courses in canning fishery products to State Extension Service workers at the request of and with the cooperation of the Extension Service of the United States Department of Agriculture. Demonstrations and practical instruction on other related subjects, pertaining to the preservation of fishery products and a better utilization of the excellent food value of fish, were given to State Extension Service workers through and with the cooperation of the Extension Service of the United States Department of Agriculture. In some cases, students or State Extension Service workers were detailed to the Bureau's laboratories in Washington, D. C., for instruction, and in other cases one of our technologists visited some of the States for this purpose.

Cooperation was also given by members of our technological staff to chemists and bacteriologists of the Food and Drug Administration, United States Department of Agriculture, at various times in connection with the development and application of tests or methods of determining the quality and constituents of various fishery products.

On several occasions members of the Division's economic and marketing staff cooperated with the Department of Labor in holding conferences with fishermen's unions and associations to settle disputes. The Department of Labor, through its Employment Service, also gave considerable aid to the Division in selecting personnel for the conduct of the Division's survey of retail fish markets.

The Division also has worked with various Federal agencies in obtaining statistical data on our fisheries. In a cooperative arrangement, the Bureau of Agricultural Economics, Department of Agriculture, furnished statistics on the volume of cold-storage holdings of fish and quantities frozen, and the health authorities in Washington, D. C., assisted in obtaining data on the volume of fish handled at the Municipal Fish Wharf and Market in this city. Cooperation was accorded the Bureau of the Census in obtaining for that Bureau figures on the volume of the quarterly production and holdings of fish oils in the United States.

In addition to the specifically enumerated instances of cooperation with other Federal agencies cited above, which are on a continuing basis or were of a more detailed nature, it should be stated that a very close relationship exists between this Division and many of those Federal agencies whose duties require an interest in fish in particular, foodstuffs or feedstuffs in general, or in various marine activities. The staff of the Division is in almost daily contact with some one or more of these Federal agencies in the exchange of information of inestimable value to the scientific work of the Federal establishment.

COOPERATION WITH STATE AGENCIES

The Division has continued to encourage cooperative relations with State institutions and agencies in the conduct of researches and investigations of mutual interest. This policy has resulted in expanded programs and decreased costs. During 1938 the following cooperative investigations with various States were conducted:

At Washington State College, Pullman, Wash., the Seattle technological laboratory staff of this Division worked with Dr. J. S. Carver in connection with tests on the feeding of fish oils and fish meals to poultry. Our Seattle technological laboratory staff also continued its close cooperative relation with members of the faculty and staff of the University of Washington, Seattle, Wash., as in past years.

The University of Maryland and the Maryland State Agricultural Experiment Station, College Park Md., continued their excellent cooperative relations with our College Park technological laboratory staff. Additional free space for the Bureau's laboratories was provided by the University of Maryland for the expanded technological work of the Bureau at that place. For example the use of another room was donated to the Division for the establishment of a new bacteriological laboratory in the Horticultural Building of the University. The various departments of animal husbandry of the Maryland State Agricultural Experiment Station continued their cooperation in the conduct of feeding tests of fishery byproducts in the rations of farm animals. The members of the staffs of these two institutions who have worked closely with our College Park technological staff are Dr. L. B. Broughton, Head of the Chemistry Department; Dr. W. C. Supplee and Mr. L. E. Bopst of the Chemistry Department; Dr. L. H. James, Head of the Department of Bacteriology; and Prof. M. H. Berry of the Dairy Department. These various cooperative studies are described in greater detail elsewhere in this report.

As discussed in the 1937 report, the Bureau's technologists continued their cooperation with the Virginia State Division of Markets in extending and improving State marketing grades for fishery products sold in that State.

The Bureau's economists and marketing specialists are working in close cooperation with the Division of Markets of the Virginia State Department of Agriculture and Immigration in connection with the survey of retail fish markets which is discussed elsewhere in this report. The Division of Markets furnished the services of a man who surveyed the retail fish markets in Harrisonburg, Staunton, Lexington, Roanoke, Lynchburg, and Charlottesville. These markets could not otherwise have been covered.

In the conduct of its statistical research work the Bureau obtains unusual cooperation from various States. The statistical surveys of the fisheries in the States bordering on the Great Lakes, in the Pacific Coast States, and in New York, Maryland, and Virginia have been greatly facilitated by the cooperation obtained from the fishery agencies in these States. With this aid it is now necessary for the Bureau to conduct only partial surveys in these States to supplement the data available from the fishery agencies. A comprehensive system for the collection of fishery statistics in the State of Maine is now being developed by the State of Maine in cooperation with members of the Bureau's staff.

In addition, in nearly every other State where commercial fishing is prosecuted, some type of cooperation in its statistical work is rendered the Bureau by the State fishery agencies or other organizations. This makes it possible for the Bureau to make statistical surveys of a greater portion of our fishery industries than otherwise would be possible.

COOPERATION WITH FISHERY ADVISORY COMMITTEE

The Division of Fishery Industries offered its fullest assistance during the year to the Fishery Advisory Committee for the Department of Commerce. Facts and figures upon the scope and conditions of the fisheries are not readily apparent except through the data collected and compiled by the Bureau of Fisheries and for this reason the success of the meetings of this Committee is partially reliant upon cooperative assistance of the Bureau's staff.

During the fiscal year the Fishery Advisory Committee held two official meetings. The first of these occurred on October 5, 1938, in Boston. This meeting was held in conjunction with the National Fishery Convention which was held in Boston during the first week of October. The division contributed to the deliberations of this meeting, furnishing summaries of activities and problems as well as assisting in the program of the meeting and in its publicity.

Assistance was also furnished the Committee in its second meeting, which was held on January 30 and 31, 1939, in the Department of Commerce Building in Washington. The full technical personnel of the Washington area was made available for consultation at this meeting. An outline of fishery problems and the Bureau's activities in relation thereto provided the foundation of the Committee's program.

The meetings resulted in the passage of resolutions, concerning the operations of the Division of Fishery Industries, which endorsed the enlargement of the Market News Service; recommended a thorough study of retail fish marketing; and urged the establishment of an extension service and the making of quality and consumption studies by the Bureau.

COOPERATIVE PAN-AMERICAN FISHERY RESEARCH

At the request of Dr. Ernest Gruening, Director of the Division of Territories and Island Possessions of the Department of the Interior, the writer was detailed as adviser on fishery matters to accompany the President's Educational Commission to Puerto Rico. The commission conducted a study of the University of Puerto Rico with the view of developing this university into a Pan-American institution. This project was recommended to President Roosevelt by his Committee on Cooperation with Latin America, and was approved by him. The commission was headed by President Isaiah Bowman of The Johns Hopkins University.

Our neighbors to the south are constantly asking us for assistance in the field of fisheries. In view of this, it appeared desirable to explore the place and need for a school of fisheries or fishery research laboratory at the proposed Pan-American institution in Puerto Rico which could serve as a focal point for fishery education to students from the Americas and the West Indies.

The development of a fishery school or research laboratory also would round out a program of scientific cooperation with Latin America which already has had its beginnings in a School of Tropical Medicine. This school is conducted under the joint auspices of the University of Puerto Rico and Columbia University. Plans are also under way for the development of graduate schools of tropical forestry and tropical agriculture.

The commission left New York City for Puerto Rico on April 6 and returned April 24, 1939. Its findings and recommendations have been reported to the President.

EXHIBITS AT EXPOSITIONS

During 1938 the Division of Fishery Industries finished arrangements for a Bureau of Fisheries display for the Pan-American Exposition at Tampa, Fla., and planned the participation of the Bureau in the "theme" exhibits for the New York World's Fair, 1939. The display at Tampa consisted of a diorama of the sponge-fishing industry. At the New York Fair the Bureau was represented in the following dioramas: Conservation, Food, Industry, Recreation, and Territories. Displays also were shipped to San Francisco for the use of Fair authorities at that city in the Golden Gate International Exposition. These consisted of illuminated panels depicting the migration of the Alaska salmon in the Pacific Ocean and the American and European eels in the Atlantic Ocean. The Bureau also was represented in the Conservation theme at this Fair.

The publicity attendant upon the public showing of displays depicting the Bureau's activities and operations in the fishery industries is recognized as an important factor in the public relations of the Bureau of Fisheries.

ECONOMIC AND MARKETING INVESTIGATIONS

There is a constant demand upon the Division of Fishery Industries to conduct economic studies of the commercial fisheries, including investigations having application to the various functions of marketing fishery commodities. It has been possible to undertake only a limited program of long-time or continuing studies of this kind with available personnel and funds during recent years. However, as is customary each year, many short-time economic and marketing studies were made in order to satisfy the urgent demands placed upon the Division. Some of these studies are conducted preliminary to or closely associated with administrative activities of the Bureau and, consequently, they are frequently not published. Some of the economic and marketing studies which were made during the past year are discussed briefly in the following paragraphs.

SURPLUS-FISH SITUATION

As a result of the legislation incorporated in Public Act 542, which was approved on May 25, 1938, the Federal Surplus Commodities Corporation, during the latter part of the fiscal year 1938, purchased 3,595,000 pounds of fish and fish products at a commodity cost of about $265,000. These purchases consisted largely of pollock, haddock, cod, mackerel, blue runner, hake, and squeteagues or "sea trout." It will be recalled that 12,059,000 pounds of fishery products were purchased, at a commodity cost of $597,000, during the latter part of the fiscal year 1937 under similar authority. These costs do not include handling and transportation.

Fishery commodities purchased by the Federal Surplus Commodities Corporation were diverted from the normal channels of trade and commerce by their distribution through Federal, State, and private relief agencies.

A study of the situation with respect to surplus fish was made by the staff of the Division during April and May 1939. The findings of this study were presented by the writer on May 31, 1939, before the Committee on Merchant Marine and Fisheries of the House of Representatives in connection with the deliberations of that Committee on H. R. 5025 and 5681.

The former of these bills had for its purpose the provision of temporary measures for the further purchase of fishery products for distribution to relief clients, while H. R. 5681 was designed to furnish permanent provision for the removal of surplus fishery commodities from the normal channels of trade and commerce.

The study made in the Division developed the following information:

Frozen and cured fish.—The holdings of frozen fishery products in cold-storage warehouses in the United States on April 15, 1939, amounted to 29,744,000 pounds, compared with 37,367,000 pounds on the same date the previous year. This is 882,000 pounds in excess of the normal or 5-year average of the holdings as of April 15, which amounted to 28,862,000 pounds.

The excess holdings as of April 15, 1939, over the 5-year average for this date consisted principally of shellfish, largely shrimp originating from the South Atlantic and Gulf coast; shad from the Atlantic coast; sablefish from the Pacific coast; and various fresh-water fish from the Great Lakes.

On April 15, 1939 the cold-storage holdings of cured herring amounted to 15,670,000 pounds, compared with 15,082,000 pounds on the same date in 1938 and the 5-year average of 12,229,000 pounds as of April 15.

Cold-storage holdings of mild-cured salmon on April 15, 1939, amounted to 3,529,000 pounds, compared with 2,719,000 pounds on the same date a year ago and the 5-year average of 3,116,000 pounds as of April 15.

Canned fish.—Holdings of canned salmon in the hands of packers, according to a report of the Association of Pacific Fisheries, Seattle, Wash., amounted to 2,032,591 standard cases of 48 1-pound cans per case on February 28, 1939. This is a decrease of 1,396,000 cases, or 67,000,000 pounds, as compared with the holdings on the same date the previous year.

Data obtained by telegram from members of the industry showed that holdings of canned tuna on March 15, 1939, amounted to 9,600,000 pounds, or approximately 6,000,000 pounds less than a year ago, while those of California sardines aggregated 7,900,000 pounds, or 3,100,000 pounds more than on the same date the previous year. Current holdings of canned shrimp amounted to 4,500,000 pounds which were almost identical with the holdings a year ago, and those of canned oysters were 2,600,000 pounds, or 800,000 pounds greater than in the preceding year. It is reported that there were no stocks of Maine sardines in packers hands on March 15 this year, but last year holdings of this product totaled about 8,000,000 pounds.

Summary.—The holdings in the spring of 1939 of all of the types of edible fishery products outlined above aggregated about 172,000,000 pounds compared with 256,000,000 pounds as of comparable dates a year ago. The holdings this year represented an excess of about 5,600,000 pounds over normal holdings for this time of the year.

SURVEY OF RETAIL MARKETING OF FISH AND SHELLFISH

Following an intensive preliminary study to determine the most efficient procedure and coverage, a survey of retail marketing of fish and shellfish was undertaken in March 1939 under the direction of Ralph Russell, Associate Fishery Economist, to include about 50 representative cities east of the Mississippi River.

The annual domestic per capita consumption of fish amounts to only 13 pounds; less than that of most of the important countries of the world. This low consumption not only curbs the potential growth of our commercial fisheries but also is evidence of the restricted volume of these healthful foods in the average diet. Recent studies indicate wide variations in the consumption of fish among various cities as well as among the various social and economic groups of residents of these cities.

It is the purpose of this survey to study the conditions under which fish are sold in retail markets. To accomplish this, the Bureau's investigators are interviewing a large number of dealers representing all segments of the retail trade to obtain information on retail methods, equipment used, prevalence and nature of advertising, consumer preference and response, location of retail outlets, and characteristic as well as unusual merchandising practices and selling methods. The field work of this survey will continue until about the end of June 1939, after which the results of the survey will be tabulated and analyzed to determine the factors which lead to the most favorable response from the public and to establish criteria which may guide retailers toward those practices which are most successful or promising. It is expected that one or more reports will be published following the completion of this work.

COMMERCIAL FISHERIES OF THE WORLD

The world's annual catch of fishery products, based on the most recent available data, amounts to about 33,600,000,000 pounds, valued at $740,000,000. The United States, including Alaska, with a catch valued at $93,000,000, leads the countries of the world in the annual value of its yield. Japan's annual catch, valued at $87,000,000, ranks second. Other countries, the annual catch of which exceeds $50,000,000 in value are, in order of their importance, Union of Soviet Socialist Republics; England, including Scotland, Northern Ireland, and Wales; China; and France. Japan, with a catch of 6,600,000,000 pounds, leads in the annual volume of the catch among the countries of the world. Following is the United States with a catch aggregating 4,800,000,000 pounds. Other countries whose annual catches exceed 1,500,000,000 pounds are, in order of their importance, Union of Soviet Socialist Republics; China; England, including Scotland, Northern Ireland, and Wales; Norway; and Germany.

THE ROSEFISH FISHERY OF NEW ENGLAND

The rosefish or "redfish" fishery of New England experienced another good year in 1938 from the standpoint of total yield, although the average value to the fisherman decreased to 1.2 cents per pound from

1.5 cents in the previous year. Landings of this species at the ports of Boston and Gloucester, Mass., and Portland, Maine, aggregated 64,700,000 pounds in 1938 as compared with 58,300,000 pounds in 1937, and the all-time high of 66,600,000 pounds in 1936. It will be recalled that prior to the intensive exploitation of this fishery in 1935 the rosefish was of little importance as a commercial species. The entire landings at the three above-mentioned principal New England ports amounted to only 57,000 pounds in 1932.

During the 4 years beginning in 1935, in which this fishery has been one of importance, Boston has received about 67 percent of the landings, Gloucester 32 percent, and Portland 1 percent. However, during these 4 years the relative importance of the individual ports in the receipts of rosefish has undergone considerable change. The landings at Boston, while amounting to 49,400,000 pounds in 1936, decreased to 34,100,000 pounds in 1938. The landings at Gloucester amounted to 17,000,000 pounds in each of the years 1936 and 1937 but increased sharply to 29,400,000 pounds in 1938. The receipts of this species by vessels at Portland have increased from 70,000 pounds in 1935 to 1,150,000 pounds in 1938.

While rosefish are taken widely throughout the fishing banks of the North Atlantic, the Western Side of South Channel alone contributed 35 percent of the landings at these three New England ports during 1937. Other fishing areas of especial importance as contributors to the landings at these three ports were as follows: Southern Nova Scotia 21 percent, Brown's Bank 20 percent, Eastern Side South Channel 11 percent, Inner Grounds 5 percent, and Western Nova Scotia 3 percent. Virtually the entire catch of rosefish is made by otter trawls.

COD FISHERIES OFF THE EAST COAST OF NORTH AMERICA

The average annual catch of cod off the East coast of North America for the 10-year period from 1926 to 1935, inclusive, amounted to 1,108,000,000 pounds, as compared with an annual average of 1,169,000,000 pounds for the preceding 10-year period, according to a report prepared by Edward A. Power, Associate Statistician and the writer, for the use of the North American Council on Fishery Investigations. The present study brings up to date Fisheries Document No. 1034 entitled "Statistics of the Catch of Cod Off the East Coast of North America to 1926," by Oscar E. Sette, which includes available data on the cod fishery prior to 1927. In 1935, the most recent year for which complete statistics are available, the catch of cod in this region amounted to 1,109,000,000 pounds. The cod fisheries off the East coast of North America are prosecuted by the nationals of no less than five countries. The most important among these, with respect to the annual volume of fish taken, is Newfoundland, the catch of which in the years from 1931 to 1935, inclusive, averaged 495,000,000 pounds. Following in order were Canada, which produced an average of 192,000,000 pounds annually during the same period; France, 127,000,000 pounds; United States, 109,000,000 pounds; and Portugal, 40,000,000 pounds.

SOURCES AND SUPPLIES OF STURGEON

Imports of sturgeon into the United States have been consistently decreasing in recent years. In 1931 receipts of sturgeon from foreign countries amounted to 3,435,000 pounds, but decreased to 1,744,000 pounds in 1934 and 1,184,000 pounds in 1938. This decline in imports is reflected principally in receipts from the Soviet Union which is the principal source of supply. Where imports from the Soviet Union amounted to 1,605,000 pounds in 1934, they decreased to 750,000 pounds in 1938.

Contrasted with the decline in receipts of sturgeon from the Soviet Union are the steadily increasing imports from Canada. Such imports amounted to only 124,000 pounds in 1934, but had increased to 353,000 pounds in 1938. Receipts from Canada were augmented during the latter part of 1938 by the development of a new source of supply in the Albany River in northern Ontario. According to a report from Warwick Perkins, American Consul at Toronto, Canada, the capture of sturgeon in this river in the past has been incidental to fisheries for other species, but, due to the high unit value of sturgeon, it has been found profitable to prosecute a fishery specifically for this fish, transporting the catch by aircraft to Nakina for transshipment on the Canadian National Railways.

It is of interest to observe that imported sturgeon furnishes our principal supply, since the domestic annual catch has averaged less than 300,000 pounds in recent years.

STATISTICAL INVESTIGATIONS

Fishery statistics are collected by the Bureau to serve two principal purposes—biological and economic. For this reason the Bureau plans its statistical surveys to obtain comprehensive data for furnishing a complete and reliable picture of the condition and trend of the fisheries. The collection and compilation of the great mass of data necessary involves many problems. The fisheries are broad in scope, including over 160 varieties of aquatic products which enter into commercial production. These, many of which are migratory, are taken by a great variety of types of gear in areas along our seacoast and in our interior lakes and streams. If the biological aspect is to be served, complete annual statistics are needed on each of these phases in every section. If the economic aspect is to be served, statistics are needed not only on the phases listed above relative to the biological aspect, but also on the price structure, the processing function, and on marketing and distributing.

It is essential that statistics on these latter phases of the industry be collected and published as soon as possible after the close of the business transactions in order that they may be of maximum value to the fishery industry and other interested parties.

BIOLOGICAL ASPECT

The biological aspect must consider two problems—the conservation and sustained supply of the resource, and the prediction of future trends or yields. Since the fisheries are usually prosecuted in areas not under private ownership, the problem of the conservation of these fisheries is of national concern. It is important that close watch be kept of the condition of the various fisheries to detect depletion so that remedial measures can be promulgated timely and wisely. For this reason it is imperative that current statistical data be obtained on the yield of our fisheries.

These statistics furnish the biologist with the background upon which to base his prediction of future trends and yields. This he does by coupling the statistical data with studies of the life history of the species. Difficulty is experienced in making these predictions because the supply (population) of the species cannot be seen, as is the case with farm animals or crops. The more complete and more reliable the statistics on yield are, the better foundation the biologist has for conducting his studies. The Bureau, therefore, aims to obtain a complete picture of each individual fishery to further these biological studies.

ECONOMIC ASPECT

When the fishery has been conserved, and trends and yields of the fishery have been predicted, the problem still remains of supplying the fishery trade with the information so essential to the conduct of its business activities. In these days of increased competition the very existence of the fishery industry must depend upon reliable economic and statistical information. Such material has been especially valuable during the past few years, when it has been used in national planning. The Bureau endeavors to make its statistical surveys so complete that the industry and the various governmental organizations may turn to it for reliable fishery statistics.

SURVEYS CONDUCTED

The statistical surveys during 1938 were conducted under the immediate supervision of Edward A. Power, Associate Statistician, and the general direction of Fred F. Johnson, Assistant Chief of the Division. These surveys included the collection and dissemination of statistics of the commercial catch and its value, fishing craft and apparatus, and employment in the fisheries. In addition, data were collected on employment and compensation of those engaged in, and products of, fishery wholesale and manufacturing establishments.

Surveys were made during the year covering all coastal sections as well as the Great Lakes for 1937. Statistics of the fisheries of Alaska also were collected by the Division of Alaska Fisheries. A summary of the production of the Mississippi River and tributaries for 1931, which is the most recent year for which a survey of this section was made by the Bureau, is included in Part 2 of this report.

In addition to the above, statistics were collected on the following special phases: The landings of fish by American fishing vessels at the ports of Boston and Gloucester, Mass., Portland, Maine, and Seattle, Wash. (published monthly); catch of mackerel in the North Atlantic fishery; cold-storage holdings of frozen and cured fish and amount of fish frozen, which are furnished by the Bureau of Agricultural Economics (published monthly); production, consumption, and holdings of marine-animal oils of the United States and Alaska (published quarterly by the Bureau of the Census); production of canned fishery products and byproducts of the United States and Alaska; transactions on the sponge exchange at Tarpon Springs, Fla.; and the volume of the United States foreign trade in fishery products, furnished by the Bureau of Foreign and Domestic Commerce.

The following statistical and marketing agents assisted in the collection and compilation of the statistical data: D. Y. Aska, C. H. Chilton, L. S. Christey, S. C. Denham, F. F. Dimick, M. J. Fraser, R. L. Greer, R. L. Hacker, V. E. Heffelfinger, H. J. Kumin, B. E. Lindgren, C. H. Lyles, C. E. Peterson, C. J. Robbins, V. J. Samson, C. B. Tendick, R. T. Whiteleather, and F. M. Wood.

The reader is especially referred to the section in the latter part of this report entitled "Statistical Survey Procedure," which gives in detail the methods employed in the collection of fishery statistics and other pertinent information.

FISHERY MARKET NEWS SERVICE

Following a period of necessary preliminary work devoted to planning, and training of personnel during the latter part of 1937, the Fishery Market News Unit of the Division was intensively engaged during 1938 in the problems connected with the opening of field offices and the issuance of daily reports therefrom. By the fall of 1938 offices were operating at four strategic points in important fish-producing and fish-marketing areas of the country, and a fifth office was issuing daily reports early in 1939.

The importance of this service to the fishery industry and allied interests is evidenced by the widespread localities and diverse classes of recipients from which requests for this service have been received. Addresses on the mailing lists include every producing and marketing area of importance in the country. Every branch of the fishing industry and numerous groups from allied fields are represented. Among the various classifications on the mailing lists are fishermen and producers; wholesale dealers; brokers; importers and exporters; buyers; retailers; chain stores; cold-storage plants; canners; salters; smokers; byproducts manufacturers; supply firms; transportation companies; Federal, State, and municipal agencies and officials; unions; associations; fishery publications; newspapers; magazines; libraries; banks; and statistical organizations.

In addition to its activities in connection with the direction and administration of the service, the Washington office of the Fishery Market News Service, in January 1939, began the preparation and dissemination of periodic current reviews of fishery market information. These are prepared in multilith form and distributed to fishermen, dealers in fish, and other interested parties. It is expected that between 10 and 15 of these reviews will be prepared each year. The need for such a service for our fishery interests has long been evident but, obviously, this need has been augmented in recent years as competition in the marketing of fishery commodities has become keener. Fortunately facilities for the preparation and dissemination of such reviews have been developed through the Fishery Market News Service. These periodic reports include summarized data, made available through the daily and monthly reports of the Fishery Market News Service, on movement, prices, and the current status of production and stocks on hand of fishery commodities; articles relating to the fisheries, prepared by members of the Bureau's staff, members of the industry, or other interested parties; excerpts or abstracts from Bureau or other publications relating to the fisheries; and related information.

During 1938 the work of the Fishery Market News Service of the Division was carried on under the immediate supervision of A. W. Anderson, Fishery Marketing Specialist, and the general direction of Fred F. Johnson, Assistant Chief of the Division. Assisting in this work, with headquarters in Washington, D. C., but working both at the headquarters office and in the field, were H. E. Timmis, Fisheries Statistical and Marketing Agent, and P. W. Evans, Junior Fisheries Marketing Agent.

FIELD OFFICES

The locations of the field offices of the Fishery Market News Service have been carefully chosen to be not only of service to the communities near their locations but also to be of the greatest benefit to the industry as a whole. Thus, New York City was selected for the first office, since it is the center of the country's most important consuming area and the market to which fishery commodities are shipped from all parts of the Nation and from foreign countries. The fresh-water and salt-water fish markets of New York exercise considerable influence on the production and price of fishery products in many areas.

The choice of Boston for the second field office was due to its importance as the center of New England's valuable fisheries, and as a port of landing for large quantities of fresh fish. With a Market News office in Boston, and agents in nearby ports, it has been possible to include in the report data on species, quantity, price, and gear used, covering about 75 percent of the fish landed in New England each day. The catch, usually running well over 600,000,000 pounds annually, is a vital factor in the fresh and frozen fish trade of this country. The value of current detailed data to all who handle this tremendous volume of fish from fishing grounds to markets over the Eastern half of the Nation is obvious.

Chicago was selected for the third field office as the most important inland market for fishery products. Much of the harvest of fresh-water fish from the Great Lakes and other interior waters is shipped to this city's wholesale market for distribution. In addition to domestic fish, Chicago receives large quantities of Canadian fresh-water varieties. It also is a marketing area and meeting ground for Eastern haddock and rosefish, Western halibut and salmon, and Gulf Coast shrimp and red snapper, thus demonstrating the distant markets penetrated by our coastal varieties and indicating the possibilities of our inland States as fish-consuming territories.

The Seattle, Wash., office was the fourth to be established. It is at that port that the greatest quantities of halibut from the valuable Pacific Coast halibut fishery are landed. Landings of salmon for the fresh and frozen trade likewise are important. In addition the receipts and transshipments, chiefly from Alaska but also from British Columbia, of both of these species are considerable. Besides covering the local production and prices, the location of the Seattle office makes it possible to obtain similar daily information from important ports in Alaska and British Columbia. A summary of this information, together with the daily carload shipments out of Seattle and Prince Rupert, B. C., is wired to our Eastern offices, providing their local markets with the advance information of probable Western arrivals, which is so essential a factor in stabilizing market prices.

The fifth Market News office was located in Jacksonville, Fla. In contrast to the other offices Jacksonville is neither an important fishing port nor the center of a large consuming area. It is, however, a very important concentrating, distributing, and shipping center, through which most of Florida's fish passes when destined for Northern markets. From this office it not only is possible to indicate market trends in all Southern varieties of fish and shellfish by reporting the production, price, and shipments of the catch in Florida, but it also is favorably situated for obtaining data on cold-storage holdings in important plants in the South Atlantic and Gulf States, and for compiling current records of the valuable canned shrimp pack which runs over a million cases annually. Of equal importance to the Southern producers is the fact that the Jacksonville office is favorably situated to quickly disseminate wired information on receipts and prices of Southern fishery products and competitive varieties in Northern markets.

The field offices are equipped with mimeographs, folders, and addressing machines to facilitate the expeditious preparation and handling of daily reports. The return address and frank are mimeographed on the report, which is folded and sealed in such a manner that it may be mailed without the use of an envelope. Addresses are stenciled on the reports after sealing. Each office also uses a different color of paper for its reports which not only enables the recipient to quickly identify them in the mail each day but also facilitates their filing for future reference.

It is estimated that existing fishery market news offices report market conditions affecting over a billion pounds of fish and shellfish annually.

Reference is made to Figures 1 and 1a which are reproductions of the explanatory statement forwarded to those on the mailing list at the New York Fishery Market News office. Similar statements are furnished from the other offices. Figures 2, 2a, 2b, and 2c are reproductions of a representative daily report issued by the New York office.

The activities of each of the Division's Fishery Market News offices and the coverage of the daily reports emanating from them are here discussed in greater detail.

NEW YORK, N. Y.

The New York office of the Fishery Market News Service issued its first Fishery Products Report on February 14, 1938. Reports have been released daily since then with the exception of Sundays and holidays.

The first section of each daily report includes data on the number of cars and packages of fish and shellfish which have arrived in the metropolitan area by rail freight and express during the preceding 24 hours, or, in the case of intervening Sundays or holidays, the period since the latest report. In the instance of fish, the species rarely can be indicated since it seldom is noted on the bill of lading. For shellfish, however, the species generally is shown. Following the above section of the report, arrivals by coastwise vessels are reported. Imports of fresh and frozen fish and fishery byproducts, such as fish oils, fish meals, etc., are compiled daily from the ship's manifests filed at the local Customhouse, and information concerning the commodity, number of packages, country from which shipped, and the name of the vessel are shown in the daily report.

Direct landings by fishing vessels at the New York market are reported as "hailing fares." Since hailing fares often vary from the actual landings, the exact "weigh-outs" are included in the report for the following day. With the advent of the Fishery Market News Report an accurate record of landings by species at New York City has been made available for the first time.

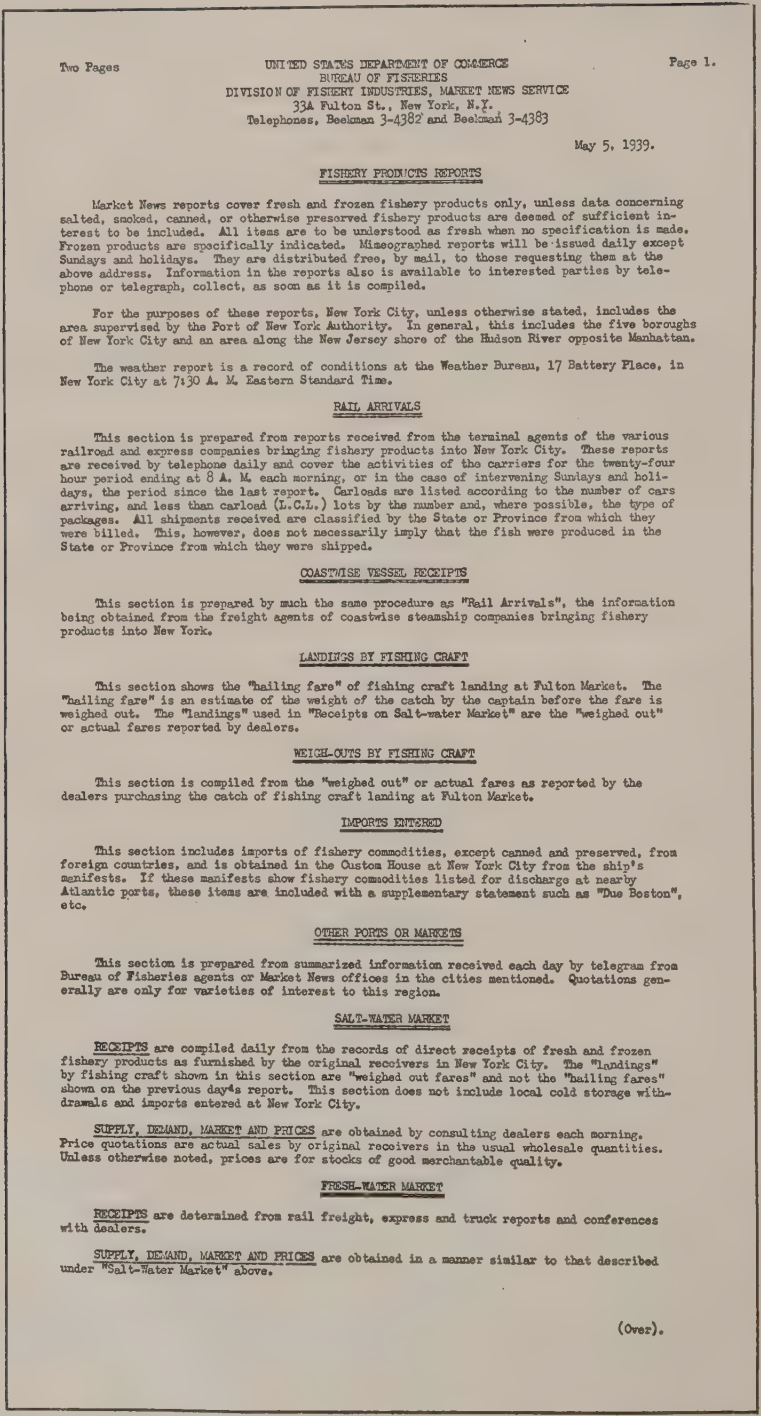
Landings by fishing craft at Portland and Rockland, Maine, and at Boston, Gloucester, Provincetown, and New Bedford, Mass., are tabulated and included in the report. The number of craft, type of gear used, and the price of each species landed also are shown. Sections on Pacific coast markets include the transactions on the halibut and salmon exchanges in Seattle, Wash., halibut landings at Prince Rupert, B. C., and the number of cars of fresh or frozen fish shipped East from each of these ports. Such information relating to market conditions at other fishing ports is received in New York by telegraph early each morning.

The amount of fish and shellfish entering or withdrawn from cold-storage plants in the Greater New York area is compiled and shown daily in about 60 classifications. Once each week the current holdings are compared with the holdings of the preceding week and also with the holdings for 4 weeks and 1 year previous. Ten cold-storage firms with 14 plants have cooperated with the Bureau in furnishing these data. Of these plants only two actually freeze fish or shellfish, while the rest are storage plants and receive their goods already frozen.

As the salt-water market is separate from the fresh-water market, the prices for the two are included in different sections of the report. Managers and salesmen of the various firms are interviewed daily to obtain the day's wholesale price quotations for the various kinds of fish and shellfish. Prices usually are accompanied by essential qualifying descriptions of the commodity, such as size and quality of the product, locality of capture, gear used, and size and type of package.

At the same time that quotations are being gathered in the salt-water market, a record of the receipts of each firm is obtained. These are compiled and, on the following day, these records furnish the basis for the section of the report showing the total quantity of each species received by States and Canadian Provinces. The record of the receipts of each firm also shows the method of transportation into the market area. In 1939 a summary making use of this information will be compiled for the salt-water market. This summary will classify receipts by origin and by method of transportation, such as truck, express, rail freight, coastwise vessel, and fishing craft.

For the 6 months from March through August 1938, the salt-water market received 79,686,000 pounds of fish; excluding imports and receipts of filleters and some hotel-supply houses. Receipts of shellfish, 22 species in all, are not included in the above figure. The largest poundage arrived by motortruck, accounting for 40 percent of the total. Fishing craft landings were next with 27 percent. Rail freight and rail express followed, with 23 percent and 9 percent, respectively. Coastwise vessels carried only one-half of 1 percent of the total. Seventy-six different species of fish were received.



Two Pages

Page 1.

UNITED STATES DEPARTMENT OF COMMERCE
BUREAU OF FISHERIES
DIVISION OF FISHERY INDUSTRIES, MARKET NEWS SERVICE
33A Fulton St., New York, N.Y.
Telephones, Beekman 3-4382 and Beekman 3-4383

May 5, 1939.

FISHERY PRODUCTS REPORTS

Market News reports cover fresh and frozen fishery products only, unless data concerning salted, smoked, canned, or otherwise preserved fishery products are deemed of sufficient interest to be included. All items are to be understood as fresh when no specification is made. Frozen products are specifically indicated. Mimeographed reports will be issued daily except Sundays and holidays. They are distributed free, by mail, to those requesting them at the above address. Information in the reports also is available to interested parties by telephone or telegraph, collect, as soon as it is compiled.

For the purposes of these reports, New York City, unless otherwise stated, includes the area supervised by the Port of New York Authority. In general, this includes the five boroughs of New York City and an area along the New Jersey shore of the Hudson River opposite Manhattan.

The weather report is a record of conditions at the Weather Bureau, 17 Battery Place, in New York City at 7:30 A. M. Eastern Standard Time.

RAIL ARRIVALS

This section is prepared from reports received from the terminal agents of the various railroad and express companies bringing fishery products into New York City. These reports are received by telephone daily and cover the activities of the carriers for the twenty-four hour period ending at 8 A. M. each morning, or in the case of intervening Sundays and holidays, the period since the last report. Carloads are listed according to the number of cars arriving, and less than carload (L.C.L.) lots by the number and, where possible, the type of packages. All shipments received are classified by the State or Province from which they were billed. This, however, does not necessarily imply that the fish were produced in the State or Province from which they were shipped.

COASTWISE VESSEL RECEIPTS

This section is prepared by much the same procedure as "Rail Arrivals", the information being obtained from the freight agents of coastwise steamship companies bringing fishery products into New York.

LANDINGS BY FISHING CRAFT

This section shows the "hailing fare" of fishing craft landing at Fulton Market. The "hailing fare" is an estimate of the weight of the catch by the captain before the fare is weighed out. The "landings" used in "Receipts on Salt-water Market" are the "weighed out" or actual fares reported by dealers.

WEIGH-OUTS BY FISHING CRAFT

This section is compiled from the "weighed out" or actual fares as reported by the dealers purchasing the catch of fishing craft landing at Fulton Market.

IMPORTS ENTERED

This section includes imports of fishery commodities, except canned and preserved, from foreign countries, and is obtained in the Custom House at New York City from the ship's manifests. If these manifests show fishery commodities listed for discharge at nearby Atlantic ports, these items are included with a supplementary statement such as "Due Boston", etc.

OTHER PORTS OR MARKETS

This section is prepared from summarized information received each day by telegram from Bureau of Fisheries agents or Market News offices in the cities mentioned. Quotations generally are only for varieties of interest to this region.

SALT-WATER MARKET

RECEIPTS are compiled daily from the records of direct receipts of fresh and frozen fishery products as furnished by the original receivers in New York City. The "landings" by fishing craft shown in this section are "weighed out fares" and not the "hailing fares" shown on the previous day's report. This section does not include local cold storage withdrawals and imports entered at New York City.

SUPPLY, DEMAND, MARKET AND PRICES are obtained by consulting dealers each morning. Price quotations are actual sales by original receivers in the usual wholesale quantities. Unless otherwise noted, prices are for stocks of good merchantable quality.

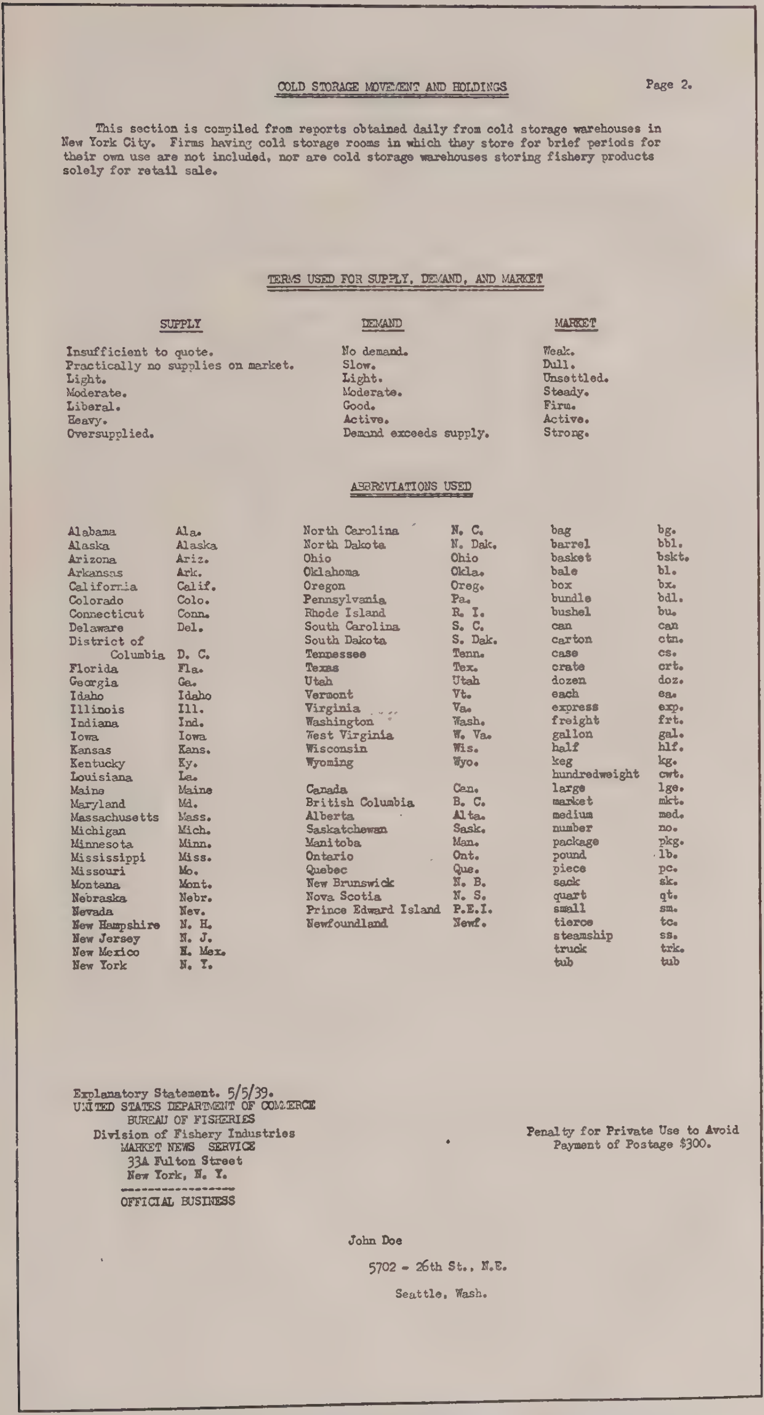
FRESH-WATER MARKET

RECEIPTS are determined from rail freight, express and truck reports and conferences with dealers.

SUPPLY, DEMAND, MARKET AND PRICES are obtained in a manner similar to that described under "Salt-Water Market" above.

(Over).

FIGURE 1.—Reproduction of page 1 of a typical explanatory statement concerning Fishery Market News Service reports.



COLD STORAGE MOVEMENT AND HOLDINGS

Page 2.

This section is compiled from reports obtained daily from cold storage warehouses in New York City. Firms having cold storage rooms in which they store for brief periods for their own use are not included, nor are cold storage warehouses storing fishery products solely for retail sale.

TERMS USED FOR SUPPLY, DEMAND, AND MARKET

SUPPLY	DEMAND	MARKET
Insufficient to quote.	No demand.	Weak.
Practically no supplies on market.	Slow.	Dull.
Light.	Light.	Unsettled.
Moderate.	Moderate.	Steady.
Liberal.	Good.	Firm.
Heavy.	Active.	Active.
Oversupplied.	Demand exceeds supply.	Strong.

ABBREVIATIONS USED

Alabama	Ala.
Alaska	Alaska
Arizona	Ariz.
Arkansas	Ark.
California	Calif.
Colorado	Colo.
Connecticut	Conn.
Delaware	Del.
District of Columbia	D. C.
Florida	Fla.
Georgia	Ga.
Idaho	Idaho
Illinois	Ill.
Indiana	Ind.
Iowa	Iowa
Kansas	Kans.
Kentucky	Ky.
Louisiana	La.
Maine	Maine
Maryland	Md.
Massachusetts	Mass.
Michigan	Mich.
Minnesota	Minn.
Mississippi	Miss.
Missouri	Mo.
Montana	Mont.
Nebraska	Nebr.
Nevada	Nev.
New Hampshire	N. H.
New Jersey	N. J.
New Mexico	N. Mex.
New York	N. Y.

North Carolina	N. C.
North Dakota	N. Dak.
Ohio	Ohio
Oklahoma	Okla.
Oregon	Oreg.
Pennsylvania	Pa.
Rhode Island	R. I.
South Carolina	S. C.
South Dakota	S. Dak.
Tennessee	Tenn.
Texas	Tex.
Utah	Utah
Vermont	Vt.
Virginia	Va.
Washington	Wash.
West Virginia	W. Va.
Wisconsin	Wis.
Wyoming	Wyo.
Canada	Can.
British Columbia	B. C.
Alberta	Alta.
Saskatchewan	Sask.
Manitoba	Man.
Ontario	Ont.
Quebec	Que.
New Brunswick	N. B.
Nova Scotia	N. S.
Prince Edward Island	P.E.I.
Newfoundland	Newf.

bag	bg.
barrel	bbl.
basket	bskt.
bale	bl.
box	bx.
bundle	bdl.
bushel	bu.
can	can
carton	ctn.
case	cs.
crate	crt.
dozen	doz.
each	ea.
express	exp.
freight	frt.
gallon	gal.
half	hlf.
keg	kg.
hundredweight	cwt.
large	lge.
market	mkt.
medium	med.
number	no.
package	pkg.
pound	lb.
piece	pc.
sack	sk.
quart	qt.
small	sm.
tierce	tc.
steamship	ss.
truck	trk.
tub	tub

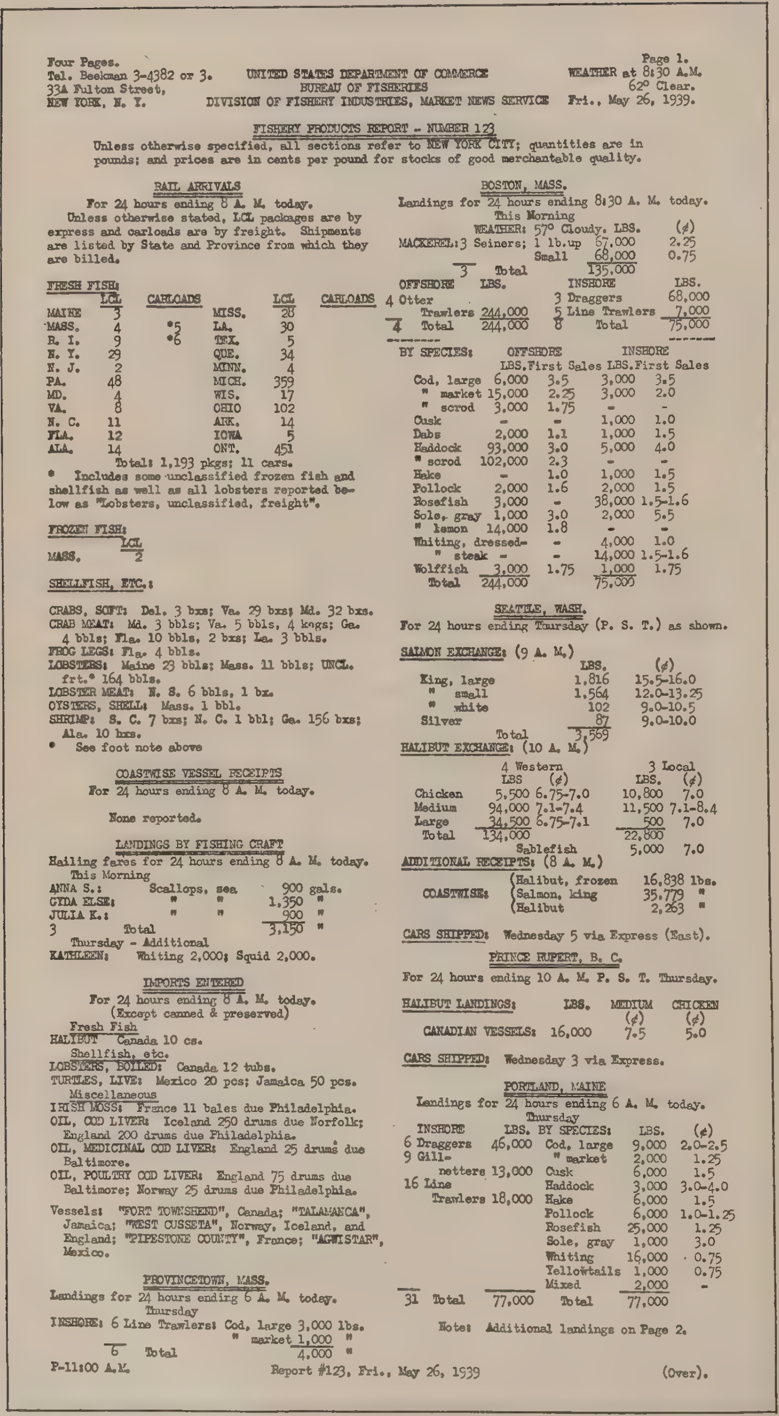
Explanatory Statement. 5/5/39.
UNITED STATES DEPARTMENT OF COMMERCE
BUREAU OF FISHERIES
Division of Fishery Industries
MARKET NEWS SERVICE
33A Fulton Street
New York, N. Y.

OFFICIAL BUSINESS

Penalty for Private Use to Avoid Payment of Postage $300.

John Doe
5702 - 26th St., N.E.
Seattle, Wash.

FIGURE 1a.—Reproduction of page 2 of the statement shown on the preceding page.



Four Pages.
Tel. Beekman 3-4382 or 3.
33A Fulton Street,
NEW YORK, N. Y.

UNITED STATES DEPARTMENT OF COMMERCE
BUREAU OF FISHERIES
DIVISION OF FISHERY INDUSTRIES, MARKET NEWS SERVICE

Page 1.
WEATHER at 8:30 A.M.
62° Clear.
Fri., May 26, 1939.

FISHERY PRODUCTS REPORT - NUMBER 123

Unless otherwise specified, all sections refer to NEW YORK CITY; quantities are in pounds; and prices are in cents per pound for stocks of good merchantable quality.

RAIL ARRIVALS

For 24 hours ending 8 A. M. today.

Unless otherwise stated, LCL packages are by express and carloads are by freight. Shipments are listed by State and Province from which they are billed.

FRESH FISH:

	LCL	CARLOADS		LCL	CARLOADS
MAINE	3		MISS.	28	
MASS.	4	•5	LA.	30	
R. I.	9	•6	TEX.	5	
N. Y.	29		QUE.	34	
N. J.	2		MINN.	4	
PA.	48		MICH.	359	
MD.	4		WIS.	17	
VA.	8		OHIO	102	
N. C.	11		ARK.	14	
FLA.	12		IOWA	5	
ALA.	14		ONT.	451	

Total: 1,193 pkgs; 11 cars.

• Includes some unclassified frozen fish and shellfish as well as all lobsters reported below as "Lobsters, unclassified, freight".

FROZEN FISH:

	LCL
MASS.	2

SHELLFISH, ETC.:

CRABS, SOFT: Del. 3 bxs; Va. 29 bxs; Md. 32 bxs.
CRAB MEAT: Md. 3 bbls; Va. 5 bbls, 4 kegs; Ga. 4 bbls; Fla. 10 bbls, 2 bxs; La. 3 bbls.
FROG LEGS: Fla. 4 bbls.
LOBSTERS: Maine 23 bbls; Mass. 11 bbls; UNCL. frt.• 164 bbls.
LOBSTER MEAT: N. S. 6 bbls, 1 bx.
OYSTERS, SHELL: Mass. 1 bbl.
SHRIMP: S. C. 7 bxs; N. C. 1 bbl; Ga. 156 bxs; Ala. 10 bxs.
• See foot note above

COASTWISE VESSEL RECEIPTS

For 24 hours ending 8 A. M. today.

None reported.

LANDINGS BY FISHING CRAFT

Hailing fares for 24 hours ending 8 A. M. today.
This Morning

ANNA S.:	Scallops, sea	900	gals.
GYDA ELSE:	" "	1,350	"
JULIA K.:	" "	900	"
3	Total	3,150	"

Thursday - Additional
KATHLEEN: Whiting 2,000; Squid 2,000.

IMPORTS ENTERED

For 24 hours ending 8 A. M. today.
(Except canned & preserved)

Fresh Fish
HALIBUT Canada 10 cs.

Shellfish, etc.
LOBSTERS, BOILED: Canada 12 tubs.
TURTLES, LIVE: Mexico 20 pcs; Jamaica 50 pcs.

Miscellaneous
IRISH MOSS: France 11 bales due Philadelphia.
OIL, COD LIVER: Iceland 250 drums due Norfolk; England 200 drums due Philadelphia.
OIL, MEDICINAL COD LIVER: England 25 drums due Baltimore.
OIL, POULTRY COD LIVER: England 75 drums due Baltimore; Norway 25 drums due Philadelphia.

Vessels: "FORT TOWNSHEND", Canada; "TALAMANCA", Jamaica; "WEST CUSSETA", Norway, Iceland, and England; "PIPESTONE COUNTY", France; "AGWISTAR", Mexico.

PROVINCETOWN, MASS.

Landings for 24 hours ending 6 A. M. today.
Thursday

INSHORE: 6 Line Trawlers:	Cod, large	3,000	lbs.
	" market	1,000	"
6 Total		4,000	"

BOSTON, MASS.

Landings for 24 hours ending 8:30 A. M. today.
This Morning
WEATHER: 57° Cloudy.

		LBS.	(¢)
MACKEREL: 3 Seiners;	1 lb.up	67,000	2.25
	Small	68,000	0.75
3 Total		135,000	

OFFSHORE	LBS.	INSHORE	LBS.
4 Otter Trawlers	244,000	3 Draggers	68,000
		5 Line Trawlers	7,000
4 Total	244,000	8 Total	75,000

BY SPECIES:	OFFSHORE LBS.	OFFSHORE First Sales	INSHORE LBS.	INSHORE First Sales
Cod, large	6,000	3.5	3,000	3.5
" market	15,000	2.25	3,000	2.0
" scrod	3,000	1.75	-	-
Cusk	-	-	1,000	1.0
Dabs	2,000	1.1	1,000	1.5
Haddock	93,000	3.0	5,000	4.0
" scrod	102,000	2.3	-	-
Hake	-	1.0	1,000	1.5
Pollock	2,000	1.6	2,000	1.5
Rosefish	3,000	-	38,000	1.5-1.6
Sole, gray	1,000	3.0	2,000	5.5
" lemon	14,000	1.8	-	-
Whiting, dressed-	-	-	4,000	1.0
" steak	-	-	14,000	1.5-1.6
Wolffish	3,000	1.75	1,000	1.75
Total	244,000		75,000	

SEATTLE, WASH.

For 24 hours ending Thursday (P. S. T.) as shown.

SALMON EXCHANGE: (9 A. M.)

	LBS.	(¢)
King, large	1,816	15.5-16.0
" small	1,564	12.0-13.25
" white	102	9.0-10.5
Silver	87	9.0-10.0
Total	3,569	

HALIBUT EXCHANGE: (10 A. M.)

	4 Western LBS	4 Western (¢)	3 Local LBS.	3 Local (¢)
Chicken	5,500	6.75-7.0	10,800	7.0
Medium	94,000	7.1-7.4	11,500	7.1-8.4
Large	34,500	6.75-7.1	500	7.0
Total	134,000		22,800	
Sablefish			5,000	7.0

ADDITIONAL RECEIPTS: (8 A. M.)

COASTWISE:	Halibut, frozen	16,838	lbs.
	Salmon, king	35,779	"
	Halibut	2,263	"

CARS SHIPPED: Wednesday 5 via Express (East).

PRINCE RUPERT, B. C.

For 24 hours ending 10 A. M. P. S. T. Thursday.

HALIBUT LANDINGS:	LBS.	MEDIUM (¢)	CHICKEN (¢)
CANADIAN VESSELS:	16,000	7.5	5.0

CARS SHIPPED: Wednesday 3 via Express.

PORTLAND, MAINE

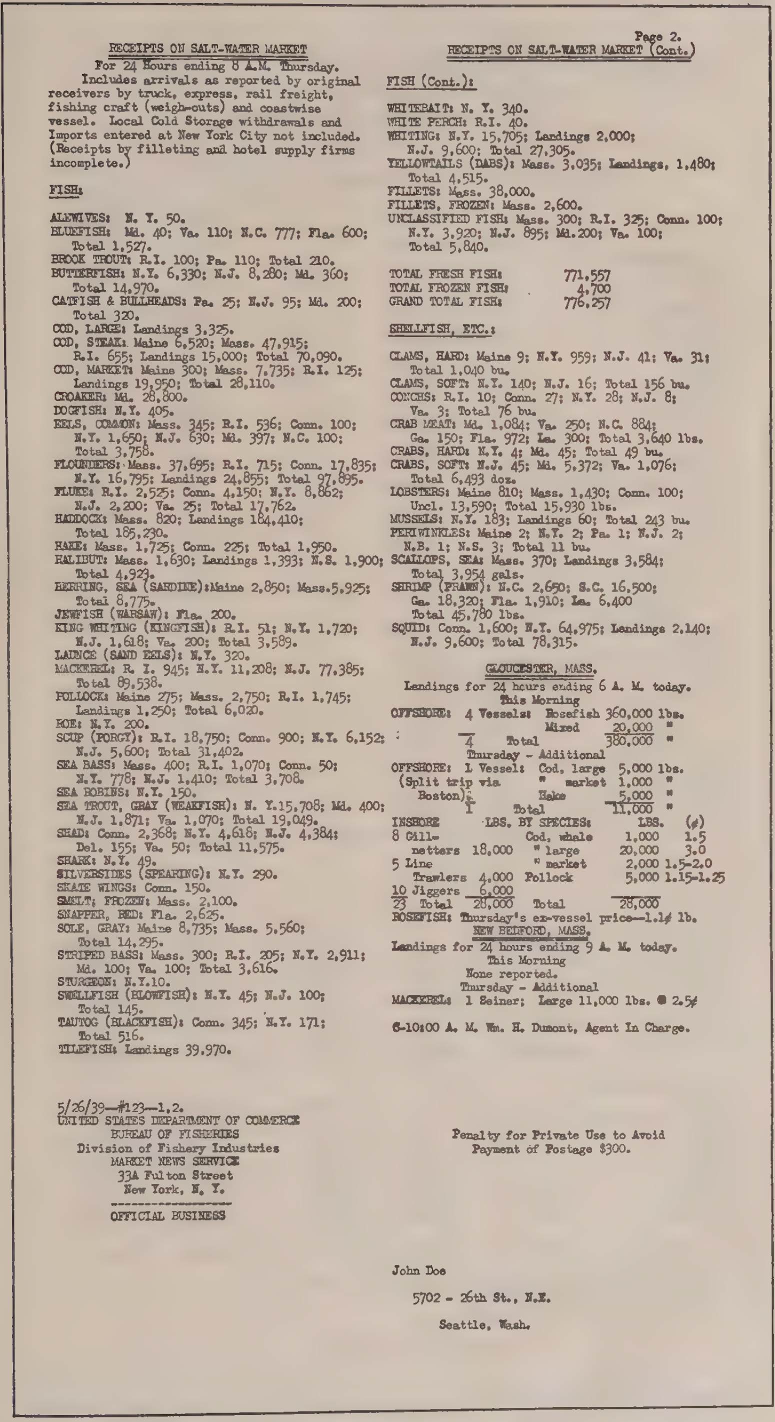
Landings for 24 hours ending 6 A. M. today.
Thursday

INSHORE	LBS.	BY SPECIES:	LBS.	(¢)
6 Draggers	46,000	Cod, large	9,000	2.0-2.5
9 Gill-netters	13,000	" market	2,000	1.25
		Cusk	6,000	1.5
16 Line Trawlers	18,000	Haddock	3,000	3.0-4.0
		Hake	6,000	1.5
		Pollock	6,000	1.0-1.25
		Rosefish	25,000	1.25
		Sole, gray	1,000	3.0
		Whiting	16,000	0.75
		Yellowtails	1,000	0.75
		Mixed	2,000	-
31 Total	77,000	Total	77,000	

Note: Additional landings on Page 2.

P-11:00 A.M. Report #123, Fri., May 26, 1939 (Over).

FIGURE 2.—Reproduction of page 1 of a typical daily Fishery Market News Service report issued by the New York City office.



RECEIPTS ON SALT-WATER MARKET

For 24 Hours ending 8 A.M. Thursday.

Includes arrivals as reported by original receivers by truck, express, rail freight, fishing craft (weigh-outs) and coastwise vessel. Local Cold Storage withdrawals and Imports entered at New York City not included. (Receipts by filleting and hotel supply firms incomplete.)

FISH:

ALEWIVES: N. Y. 50.
BLUEFISH: Md. 40; Va. 110; N.C. 777; Fla. 600; Total 1,527.
BROOK TROUT: R.I. 100; Pa. 110; Total 210.
BUTTERFISH: N.Y. 6,330; N.J. 8,280; Md. 360; Total 14,970.
CATFISH & BULLHEADS: Pa. 25; N.J. 95; Md. 200; Total 320.
COD, LARGE: Landings 3,325.
COD, STEAK: Maine 6,520; Mass. 47,915; R.I. 655; Landings 15,000; Total 70,090.
COD, MARKET: Maine 300; Mass. 7,735; R.I. 125; Landings 19,950; Total 28,110.
CROAKER: Md. 28,800.
DOGFISH: N.Y. 405.
EELS, COMMON: Mass. 345; R.I. 536; Conn. 100; N.Y. 1,650; N.J. 630; Md. 397; N.C. 100; Total 3,758.
FLOUNDERS: Mass. 37,695; R.I. 715; Conn. 17,835; N.Y. 16,795; Landings 24,855; Total 97,895.
FLUKE: R.I. 2,525; Conn. 4,150; N.Y. 8,862; N.J. 2,200; Va. 25; Total 17,762.
HADDOCK: Mass. 820; Landings 184,410; Total 185,230.
HAKE: Mass. 1,725; Conn. 225; Total 1,950.
HALIBUT: Mass. 1,630; Landings 1,393; N.S. 1,900; Total 4,923.
HERRING, SEA (SARDINE): Maine 2,850; Mass. 5,925; Total 8,775.
JEWFISH (WARSAW): Fla. 200.
KING WHITING (KINGFISH): R.I. 51; N.Y. 1,720; N.J. 1,618; Va. 200; Total 3,589.
LAUNCE (SAND EELS): N.Y. 320.
MACKEREL: R. I. 945; N.Y. 11,208; N.J. 77,385; Total 89,538.
POLLOCK: Maine 275; Mass. 2,750; R.I. 1,745; Landings 1,250; Total 6,020.
ROE: N.Y. 200.
SCUP (PORGY): R.I. 18,750; Conn. 900; N.Y. 6,152; N.J. 5,600; Total 31,402.
SEA BASS: Mass. 400; R.I. 1,070; Conn. 50; N.Y. 778; N.J. 1,410; Total 3,708.
SEA ROBINS: N.Y. 150.
SEA TROUT, GRAY (WEAKFISH): N. Y. 15,708; Md. 400; N.J. 1,871; Va. 1,070; Total 19,049.
SHAD: Conn. 2,368; N.Y. 4,618; N.J. 4,384; Del. 155; Va. 50; Total 11,575.
SHARK: N.Y. 49.
SILVERSIDES (SPEARING): N.Y. 290.
SKATE WINGS: Conn. 150.
SMELT; FROZEN: Mass. 2,100.
SNAPPER, RED: Fla. 2,625.
SOLE, GRAY: Maine 8,735; Mass. 5,560; Total 14,295.
STRIPED BASS: Mass. 300; R.I. 205; N.Y. 2,911; Md. 100; Va. 100; Total 3,616.
STURGEON: N.Y. 10.
SWELLFISH (BLOWFISH): N.Y. 45; N.J. 100; Total 145.
TAUTOG (BLACKFISH): Conn. 345; N.Y. 171; Total 516.
TILEFISH: Landings 39,970.

5/26/39—#123—1,2.
UNITED STATES DEPARTMENT OF COMMERCE
BUREAU OF FISHERIES
Division of Fishery Industries
MARKET NEWS SERVICE
33A Fulton Street
New York, N. Y.

OFFICIAL BUSINESS

Page 2.

RECEIPTS ON SALT-WATER MARKET (Cont.)

FISH (Cont.):

WHITEBAIT: N. Y. 340.
WHITE PERCH: R.I. 40.
WHITING: N.Y. 15,705; Landings 2,000; N.J. 9,600; Total 27,305.
YELLOWTAILS (DABS): Mass. 3,035; Landings, 1,480; Total 4,515.
FILLETS: Mass. 38,000.
FILLETS, FROZEN: Mass. 2,600.
UNCLASSIFIED FISH: Mass. 300; R.I. 325; Conn. 100; N.Y. 3,920; N.J. 895; Md. 200; Va. 100; Total 5,840.

TOTAL FRESH FISH:	771,557
TOTAL FROZEN FISH:	4,700
GRAND TOTAL FISH:	776,257

SHELLFISH, ETC.:

CLAMS, HARD: Maine 9; N.Y. 959; N.J. 41; Va. 31; Total 1,040 bu.
CLAMS, SOFT: N.Y. 140; N.J. 16; Total 156 bu.
CONCHS: R.I. 10; Conn. 27; N.Y. 28; N.J. 8; Va. 3; Total 76 bu.
CRAB MEAT: Md. 1,084; Va. 250; N.C. 884; Ga. 150; Fla. 972; La. 300; Total 3,640 lbs.
CRABS, HARD: N.Y. 4; Md. 45; Total 49 bu.
CRABS, SOFT: N.J. 45; Md. 5,372; Va. 1,076; Total 6,493 doz.
LOBSTERS: Maine 810; Mass. 1,430; Conn. 100; Uncl. 13,590; Total 15,930 lbs.
MUSSELS: N.Y. 183; Landings 60; Total 243 bu.
PERIWINKLES: Maine 2; N.Y. 2; Pa. 1; N.J. 2; N.B. 1; N.S. 3; Total 11 bu.
SCALLOPS, SEA: Mass. 370; Landings 3,584; Total 3,954 gals.
SHRIMP (PRAWN): N.C. 2,650; S.C. 16,500; Ga. 18,320; Fla. 1,910; La. 6,400 Total 45,780 lbs.
SQUID: Conn. 1,600; N.Y. 64,975; Landings 2,140; N.J. 9,600; Total 78,315.

GLOUCESTER, MASS.

Landings for 24 hours ending 6 A. M. today.

This Morning

OFFSHORE:	4 Vessels:	Rosefish	360,000	lbs.
		Mixed	20,000	"
	4	Total	380,000	"

Thursday - Additional

OFFSHORE:	1 Vessel:	Cod, large	5,000	lbs.
(Split trip via		" market	1,000	"
Boston):		Hake	5,000	"
	1	Total	11,000	"

INSHORE		LBS. BY SPECIES:	LBS.	(¢)
8 Gill-netters	18,000	Cod, whale	1,000	1.5
		" large	20,000	3.0
5 Line Trawlers	4,000	" market	2,000	1.5-2.0
		Pollock	5,000	1.15-1.25
10 Jiggers	6,000			
23 Total	28,000	Total	28,000	

ROSEFISH: Thursday's ex-vessel price--1.1¢ lb.

NEW BEDFORD, MASS.

Landings for 24 hours ending 9 A. M. today.

This Morning

None reported.

Thursday - Additional

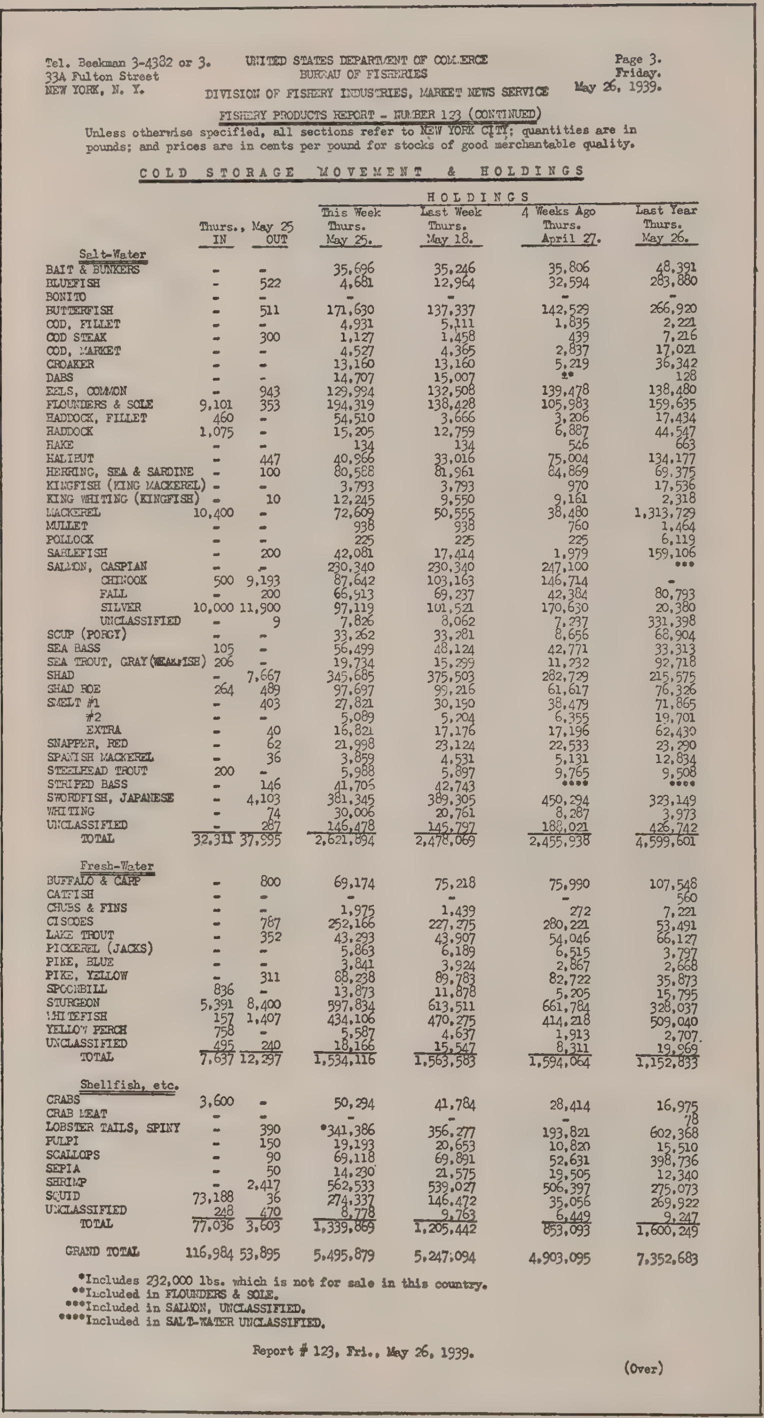
MACKEREL: 1 Seiner; Large 11,000 lbs. @ 2.5¢

6-10:00 A. M. Wm. H. Dumont, Agent In Charge.

Penalty for Private Use to Avoid Payment of Postage $300.

John Doe
5702 - 26th St., N.E.
Seattle, Wash.

FIGURE 2a.—Reproduction of page 2 of the report shown on the preceding page.



Tel. Beekman 3-4382 or 3.
33A Fulton Street
NEW YORK, N. Y.

UNITED STATES DEPARTMENT OF COMMERCE
BUREAU OF FISHERIES
DIVISION OF FISHERY INDUSTRIES, MARKET NEWS SERVICE

Page 3.
Friday.
May 26, 1939.

FISHERY PRODUCTS REPORT - NUMBER 123 (CONTINUED)

Unless otherwise specified, all sections refer to NEW YORK CITY; quantities are in pounds; and prices are in cents per pound for stocks of good merchantable quality.

COLD STORAGE MOVEMENT & HOLDINGS

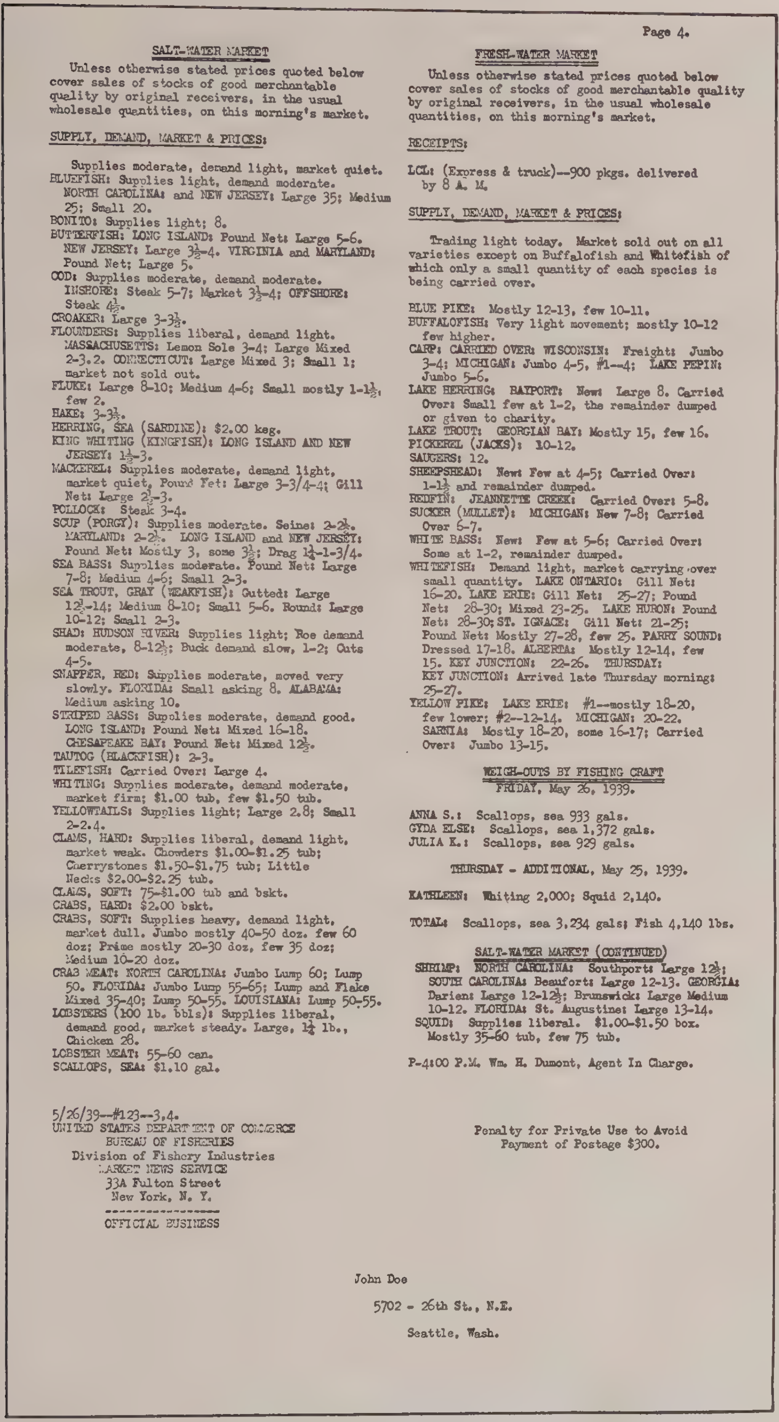
	Thurs., May 25		HOLDINGS			
	IN	OUT	This Week Thurs. May 25.	Last Week Thurs. May 18.	4 Weeks Ago Thurs. April 27.	Last Year Thurs. May 26.
Salt-Water						
BAIT & BUNKERS	-	-	35,696	35,246	35,806	48,391
BLUEFISH	-	522	4,681	12,964	32,594	283,880
BONITO	-	-	-	-	-	-
BUTTERFISH	-	511	171,630	137,337	142,529	266,920
COD, FILLET	-	-	4,931	5,111	1,835	2,221
COD STEAK	-	300	1,127	1,458	439	7,216
COD, MARKET	-	-	4,527	4,365	2,837	17,021
CROAKER	-	-	13,160	13,160	5,219	36,342
DABS	-	-	14,707	15,007	**	128
EELS, COMMON	-	943	129,994	132,508	139,478	138,480
FLOUNDERS & SOLE	9,101	353	194,319	138,428	105,983	159,635
HADDOCK, FILLET	460	-	54,510	3,666	3,206	17,434
HADDOCK	1,075	-	15,205	12,759	6,887	44,547
HAKE	-	-	134	134	546	663
HALIBUT	-	447	40,966	33,016	75,004	134,177
HERRING, SEA & SARDINE	-	100	80,588	81,961	84,869	69,375
KINGFISH (KING MACKEREL)	-	-	3,793	3,793	970	17,536
KING WHITING (KINGFISH)	-	10	12,245	9,550	9,161	2,318
MACKEREL	10,400	-	72,609	50,555	38,480	1,313,729
MULLET	-	-	938	938	760	1,464
POLLOCK	-	-	225	225	225	6,119
SABLEFISH	-	200	42,081	17,414	1,979	159,106
SALMON, CASPIAN	-	-	230,340	230,340	247,100	***
CHINOOK	500	9,193	87,642	103,163	146,714	-
FALL	-	200	66,913	69,237	42,384	80,793
SILVER	10,000	11,900	97,119	101,521	170,630	20,380
UNCLASSIFIED	-	9	7,826	8,062	7,237	331,398
SCUP (PORGY)	-	-	33,262	33,281	8,656	68,904
SEA BASS	105	-	56,499	48,124	42,771	33,313
SEA TROUT, GRAY (WEAKFISH)	206	-	19,734	15,299	11,232	92,718
SHAD	-	7,667	345,685	375,503	282,729	215,575
SHAD ROE	264	489	97,697	99,216	61,617	76,326
SMELT #1	-	403	27,821	30,190	38,479	71,865
#2	-	-	5,089	5,204	6,355	19,701
EXTRA	-	40	16,821	17,176	17,196	62,430
SNAPPER, RED	-	62	21,998	23,124	22,533	23,290
SPANISH MACKEREL	-	36	3,859	4,531	5,131	12,834
STEELHEAD TROUT	200	-	5,988	5,897	9,765	9,508
STRIPED BASS	-	146	41,706	42,743	****	****
SWORDFISH, JAPANESE	-	4,103	381,345	389,305	450,294	323,149
WHITING	-	74	30,006	20,761	8,287	3,973
UNCLASSIFIED	-	287	146,478	145,797	188,021	426,742
TOTAL	32,311	37,995	2,621,894	2,478,069	2,455,938	4,599,601
Fresh-Water						
BUFFALO & CARP	-	800	69,174	75,218	75,990	107,548
CATFISH	-	-	-	-	-	560
CHUBS & FINS	-	-	1,975	1,439	272	7,221
CISCOES	-	787	252,166	227,275	280,221	53,491
LAKE TROUT	-	352	43,293	43,907	54,046	66,127
PICKEREL (JACKS)	-	-	5,863	6,189	6,515	3,797
PIKE, BLUE	-	-	3,841	3,924	2,867	2,668
PIKE, YELLOW	-	311	68,238	89,783	82,722	35,873
SPOONBILL	836	-	13,873	11,878	5,205	15,795
STURGEON	5,391	8,400	597,834	613,511	661,784	328,037
WHITEFISH	157	1,407	434,106	470,275	414,218	509,040
YELLOW PERCH	758	-	5,587	4,637	1,913	2,707
UNCLASSIFIED	495	240	18,166	15,547	8,311	19,969
TOTAL	7,637	12,297	1,534,116	1,563,583	1,594,064	1,152,833
Shellfish, etc.						
CRABS	3,600	-	50,294	41,784	28,414	16,975
CRAB MEAT	-	-	-	-	-	78
LOBSTER TAILS, SPINY	-	390	*341,386	356,277	193,821	602,368
PULPI	-	150	19,193	20,653	10,820	15,510
SCALLOPS	-	90	69,118	69,891	52,631	398,736
SEPIA	-	50	14,230	21,575	19,505	12,340
SHRIMP	-	2,417	562,533	539,027	506,397	275,073
SQUID	73,188	36	274,337	146,472	35,056	269,922
UNCLASSIFIED	248	470	8,778	9,763	6,449	9,247
TOTAL	77,036	3,603	1,339,869	1,205,442	853,093	1,600,249
GRAND TOTAL	116,984	53,895	5,495,879	5,247,094	4,903,095	7,352,683

*Includes 232,000 lbs. which is not for sale in this country.
**Included in FLOUNDERS & SOLE.
***Included in SALMON, UNCLASSIFIED.
****Included in SALT-WATER UNCLASSIFIED.

Report # 123, Fri., May 26, 1939.

(Over)

FIGURE 2b.—Reproduction of page 3 of the report shown on page 186.



Page 4.

SALT-WATER MARKET

Unless otherwise stated prices quoted below cover sales of stocks of good merchantable quality by original receivers, in the usual wholesale quantities, on this morning's market.

SUPPLY, DEMAND, MARKET & PRICES:

Supplies moderate, demand light, market quiet.
BLUEFISH: Supplies light, demand moderate. NORTH CAROLINA: and NEW JERSEY: Large 35; Medium 25; Small 20.
BONITO: Supplies light; 8.
BUTTERFISH: LONG ISLAND: Pound Net: Large 5-6. NEW JERSEY: Large 3½-4. VIRGINIA and MARYLAND: Pound Net; Large 5.
COD: Supplies moderate, demand moderate. INSHORE: Steak 5-7; Market 3½-4; OFFSHORE: Steak 4½.
CROAKER: Large 3-3½.
FLOUNDERS: Supplies liberal, demand light. MASSACHUSETTS: Lemon Sole 3-4; Large Mixed 2-3.2. CONNECTICUT: Large Mixed 3; Small 1; market not sold out.
FLUKE: Large 8-10; Medium 4-6; Small mostly 1-1½, few 2.
HAKE: 3-3½.
HERRING, SEA (SARDINE): $2.00 keg.
KING WHITING (KINGFISH): LONG ISLAND AND NEW JERSEY: 1½-3.
MACKEREL: Supplies moderate, demand light, market quiet, Pound Net: Large 3-3/4-4; Gill Net: Large 2½-3.
POLLOCK: Steak 3-4.
SCUP (PORGY): Supplies moderate. Seine: 2-2½. MARYLAND: 2-2½. LONG ISLAND and NEW JERSEY: Pound Net: Mostly 3, some 3½; Drag 1¼-1-3/4.
SEA BASS: Supplies moderate. Pound Net: Large 7-8; Medium 4-6; Small 2-3.
SEA TROUT, GRAY (WEAKFISH): Gutted: Large 12½-14; Medium 8-10; Small 5-6. Round: Large 10-12; Small 2-3.
SHAD: HUDSON RIVER: Supplies light; Roe demand moderate, 8-12½; Buck demand slow, 1-2; Cuts 4-5.
SNAPPER, RED: Supplies moderate, moved very slowly. FLORIDA: Small asking 8. ALABAMA: Medium asking 10.
STRIPED BASS: Supplies moderate, demand good. LONG ISLAND: Pound Net: Mixed 16-18. CHESAPEAKE BAY: Pound Net: Mixed 12½.
TAUTOG (BLACKFISH): 2-3.
TILEFISH: Carried Over: Large 4.
WHITING: Supplies moderate, demand moderate, market firm; $1.00 tub, few $1.50 tub.
YELLOWTAILS: Supplies light; Large 2.8; Small 2-2.4.
CLAMS, HARD: Supplies liberal, demand light, market weak. Chowders $1.00-$1.25 tub; Cherrystones $1.50-$1.75 tub; Little Necks $2.00-$2.25 tub.
CLAMS, SOFT: 75-$1.00 tub and bskt.
CRABS, HARD: $2.00 bskt.
CRABS, SOFT: Supplies heavy, demand light, market dull. Jumbo mostly 40-50 doz. few 60 doz; Prime mostly 20-30 doz, few 35 doz; Medium 10-20 doz.
CRAB MEAT: NORTH CAROLINA: Jumbo Lump 60; Lump 50. FLORIDA: Jumbo Lump 55-65; Lump and Flake Mixed 35-40; Lump 50-55. LOUISIANA: Lump 50-55.
LOBSTERS (100 lb. bbls): Supplies liberal, demand good, market steady. Large, 1¼ lb., Chicken 28.
LOBSTER MEAT: 55-60 can.
SCALLOPS, SEA: $1.10 gal.

5/26/39--#123--3,4.
UNITED STATES DEPARTMENT OF COMMERCE
BUREAU OF FISHERIES
Division of Fishery Industries
MARKET NEWS SERVICE
33A Fulton Street
New York, N. Y.

OFFICIAL BUSINESS

FRESH-WATER MARKET

Unless otherwise stated prices quoted below cover sales of stocks of good merchantable quality by original receivers, in the usual wholesale quantities, on this morning's market.

RECEIPTS:

LCL: (Express & truck)--900 pkgs. delivered by 8 A. M.

SUPPLY, DEMAND, MARKET & PRICES:

Trading light today. Market sold out on all varieties except on Buffalofish and Whitefish of which only a small quantity of each species is being carried over.

BLUE PIKE: Mostly 12-13, few 10-11.
BUFFALOFISH: Very light movement; mostly 10-12 few higher.
CARP: CARRIED OVER: WISCONSIN: Freight: Jumbo 3-4; MICHIGAN: Jumbo 4-5, #1--4; LAKE PEPIN: Jumbo 5-6.
LAKE HERRING: BAYPORT: New: Large 8. Carried Over: Small few at 1-2, the remainder dumped or given to charity.
LAKE TROUT: GEORGIAN BAY: Mostly 15, few 16.
PICKEREL (JACKS): 10-12.
SAUGERS: 12.
SHEEPSHEAD: New: Few at 4-5; Carried Over: 1-1½ and remainder dumped.
REDFIN: JEANNETTE CREEK: Carried Over: 5-8.
SUCKER (MULLET): MICHIGAN: New 7-8; Carried Over 6-7.
WHITE BASS: New: Few at 5-6; Carried Over: Some at 1-2, remainder dumped.
WHITEFISH: Demand light, market carrying over small quantity. LAKE ONTARIO: Gill Net: 16-20. LAKE ERIE: Gill Net: 25-27; Pound Net: 28-30; Mixed 23-25. LAKE HURON: Pound Net: 28-30; ST. IGNACE: Gill Net: 21-25; Pound Net: Mostly 27-28, few 25. PARRY SOUND: Dressed 17-18. ALBERTA: Mostly 12-14, few 15. KEY JUNCTION: 22-26. THURSDAY: KEY JUNCTION: Arrived late Thursday morning: 25-27.
YELLOW PIKE: LAKE ERIE: #1--mostly 18-20, few lower; #2--12-14. MICHIGAN: 20-22. SARNIA: Mostly 18-20, some 16-17; Carried Over: Jumbo 13-15.

WEIGH-OUTS BY FISHING CRAFT
FRIDAY, May 26, 1939.

ANNA S.: Scallops, sea 933 gals.
GYDA ELSE: Scallops, sea 1,372 gals.
JULIA K.: Scallops, sea 929 gals.

THURSDAY - ADDITIONAL, May 25, 1939.

KATHLEEN: Whiting 2,000; Squid 2,140.

TOTAL: Scallops, sea 3,234 gals; Fish 4,140 lbs.

SALT-WATER MARKET (CONTINUED)

SHRIMP: NORTH CAROLINA: Southport: Large 12½; SOUTH CAROLINA: Beaufort: Large 12-13. GEORGIA: Darien: Large 12-12½; Brunswick: Large Medium 10-12. FLORIDA: St. Augustine: Large 13-14.
SQUID: Supplies liberal. $1.00-$1.50 box. Mostly 35-60 tub, few 75 tub.

P-4:00 P.M. Wm. H. Dumont, Agent In Charge.

Penalty for Private Use to Avoid
Payment of Postage $300.

John Doe
5702 - 26th St., N.E.
Seattle, Wash.

FIGURE 2c.—Reproduction of page 4 of the report shown on page 186.

Twenty-two species accounted for 74,564,000 pounds, or 94 percent of all salt-water fish received. Over 2,000,000 pounds of each of the 11 leading varieties were received, forming 79 percent of the total. In order of their importance they were cod, flounders (blackbacks or winter flounders), mackerel, haddock, butterfish, scup (porgy), yellowtails (dabs), whiting, halibut, shad, and croaker. Receipts of six species ranged from one to two million pounds, or 10 percent of the total. They were gray sea trout (weakfish), fluke (summer flounder), bluefish, gray sole, sea bass, and salmon (Western). The five species received in amounts from one-half to one million pounds were sea herring (including sardines), hake, striped bass, pollock, and tilefish.

Groundfish (cod, haddock, hake, and pollock) accounted for 26 percent of the total receipts during the 6-month period. Flatfishes from the East coast, consisting of blackbacks, flounders, fluke (summer flounder), gray sole and yellowtails, formed 21 percent; and Western halibut and salmon, a little over 5 percent. Varieties caught in large quantities in the Middle Atlantic States, such as butterfish, mackerel, scup (porgy), gray sea trout, sardines, and whiting, made up 10 percent. Of the remaining species, those fish taken in large amounts in other areas as well as in the Middle Atlantic (bluefish, croaker, sea bass, shad, and striped bass) represent 31 percent of the receipts.

The three leading varieties of shellfish received during these 6 months were shrimp, 5,343,000 pounds; lobsters, 2,150,000 pounds; and squid, 1,671,000 pounds.

Since detailed receipts for the fresh-water market were not collected, exact quantities cannot be given. However, from daily experience in the market it can be stated that whitefish and yellow pike were the leading species among the higher-priced fish, while carp was important in the lower-priced group.

The distribution of fresh and frozen fish and shellfish in the New York area was effected largely through 92 wholesale dealers, 20 hotel and restaurant supply firms, and 7 brokers. Of the wholesale dealers, 24 handled fresh-water fish exclusively, 3 sold fresh-water and salt-water fish, while the remainder were mainly either salt-water fish or shellfish firms. There were 12 fillet-cutting firms in addition to several of the hotel-supply firms that produced their own fillets.

The delivery of fish and shellfish to local or suburban purchasers generally is made by trucks owned by the buyers. Trucking agencies and rail express carry the balance.

The retail outlets for fish in New York City have been estimated by the City Bureau of Markets to include 1,500 independent stores that handle fish exclusively, 1,800 meat stores selling fish part of the time, and 700 general markets and chain stores which handle fish.

The wholesale dealers handling fresh and frozen fishery products in New York are centered in a marketing area comprising about four square blocks along the East River near the foot of Fulton Street and just south of the Manhattan end of the Brooklyn Bridge. Known as Fulton Market, the wholesale fish trade has been in this location over a century. Dealers handling salt-water fish and shellfish occupy the greater part of the area, the fresh-water fish dealers practically being limited to one street known as Peck Slip. As there are no direct rail or express connections all shipments must be trucked between the market and the terminals. Many of the latter are situated at a considerable distance across the city. Two freezers adjoin the market area while the remaining plants storing frozen fish are widely scattered. Fishing vessels discharge their fares at one of several piers extending into the East River. The catch usually is barreled or boxed on the pier for trucking to the dealer's stand or for immediate shipment.

On the site of a market building which collapsed into the East River in 1936, a modern structure has been erected by the city and leased to an organization of the wholesale dealers. It contains well-designed stands on the ground floor with ample office space and dressing rooms above, and is supplemented by a large parking area in front and a receiving platform and bulkhead dock in the rear. Providing many advantages over the older types, the new market building was opened in June 1939. The Fishery Market News Service office is located in a building on the edge of the market area.

The operations of the Fishery Market News Service office in New York City during 1938 were carried on and the daily report issued under the supervision of W. H. Dumont, Senior Fisheries Marketing Agent, assisted by E. C. Hinsdale, Fisheries Marketing Agent (transferred to Chicago during the year), F. J. Anderson, and W. D. Glidden, Jr., Junior Fisheries Marketing Agents, and Joseph Pileggi and Peter DiMarco, Senior and Junior Clerk-Stenographers, respectively.

BOSTON, MASS.

The first issue of the Boston Fishery Market News Report was released on May 26, 1938. It covers the daily activities of this important fishing port in considerable detail. Hailing fares of the offshore and inshore fleets landing at Boston Fish Pier—otter trawlers, draggers, line trawlers, hand liners, gill netters, purse seiners, and harpooners—are listed in one large table, which also includes the first sales prices of each species in the catch. To aid in the orderly marketing of Boston's huge supply of fish much additional information is included. The current landings at other ports, both nearby and distant—Gloucester, New Bedford, and Provincetown, Mass.; Portland and Rockland, Maine; New York, N. Y.; Seattle, Wash.; and Prince Rupert, B. C.—are received by telegraph and made available early each morning. Rail freight, rail express, and coastwise steamship arrivals are not only covered for the period since the preceding report, but a section for additional receipts includes shipments by rail and steamship, mostly fish and shellfish from Canada, due to arrive later in the day. Other daily compilations include imports of fishery products from all countries, prices paid to shippers of fishery products by dealers on the pier, and the movement of over 30 fishery commodities into and out of cold storage. Weekly, comparative holdings are published for the current and preceding weeks and for 4 weeks and 1 year previous. In order to be of the greatest aid to the industry, the daily report is completed and delivered to the dealers on and in the vicinity of the pier each forenoon and, for delivery outside Boston, is placed in the mail at noon.

Boston is primarily a production center, supplying enormous quantities of fresh and frozen fishery products to the Nation. It is well situated with the natural advantages of an excellent harbor and nearness to both producing and marketing areas. It also has good handling and shipping facilities.

The Boston Fish Pier, the largest in the world devoted exclusively to the fish business, is the outgrowth of the importance of the fishing industry to Boston. The pier itself extends 1,200 feet into the harbor and is 300 feet in width, the entire property comprising 537,000 square feet. It was built at a cost of $3,000,000 and was opened on March 30, 1914. Approximately 350,000,000 pounds of fish are landed at the pier annually.

The pier is divided by a wide center street flanked on each side by buildings especially designed and constructed to house the activities of the wholesale dealers occupying the individual stores. Besides sufficient space for the receiving, processing, packing, and shipping of fish, they also contain offices and storage rooms. Each store has a front entrance on the center street and a rear entrance on a mooring side of the pier, thus making it possible for fish to be taken directly from the vessel into the rear entrance, processed, packed, and delivered to a waiting truck at the front entrance.

A large cold-storage plant is located at the shore end of the pier. It has a capacity of 15,000,000 pounds of frozen fish as well as adequate freezing and icing facilities. In addition, there are three other public cold-storage plants near at hand that freeze and store fish.

The New England Fish Exchange is located in a building on the outermost end of the pier. It is here that all trips of fish are sold. The Exchange is open early each morning, except on Sundays or holidays. If desiring to sell in or over the Exchange the captain of each vessel is required to register his catch with an officer of the Exchange before it can be auctioned. The detailed fare of each individual trip is posted on blackboards for the inspection of the buyers. All bidders or buyers must be members of the Exchange. Every effort is made by the vessel captains to make port prior to the opening of the Exchange in order to obtain top prices.

The bidding commences at 7:15 a. m. Each captain has the alternative of making his own sale or engaging an authorized agent to do his selling for him. The auctioneers are on a raised stand in the center of the Exchange around which the buyers gather. The auctioneer announces the amount and kind of fish he has to offer, accepts bids, and sells to the highest bidder. The buyer may buy part or all of any trip. All purchasers are presented with settlement slips which must be paid before the closing of that day's business. The sales continue throughout the day until all fish are sold. Each morning the sales begin with new arrivals, since fish seldom are carried over unless the owner or captain finds it advantageous to do so.

The Boston Fish Pier is a scene of great activity throughout the day. Fish is being moved in all directions as soon as the first sales are consummated. From the vessel's side to the dealer's premises the fish generally are transported in large two-wheeled carts, hauled by hand or motortrucks.

Good transportation facilities add to the importance of Boston as a producing center. On the pier a railroad spur on each side of the cold-storage plant makes it possible to load directly into cars or unload directly into the freezer. Two large trucking firms have platforms to receive and send shipments. All of the stores have loading platforms to accommodate trucks of various sizes. The finished products are loaded at these points for local or State-wide distribution. In addition, large refrigerated trucks receive cargoes for distant delivery. These trucking lines maintain daily schedules and extend as far west as Denver. A fleet of trucks carries express shipments from the pier to rail terminals. Much of the fish shipped to New York is transported in carlots on special freight trains operating on a fast schedule.

There are about 90 wholesale fish establishments and manufacturers of fishery products in Boston. They handle fresh and frozen fish and shellfish, and produce fillets, salted, smoked and canned fish, crab and lobster meat, cod-liver oil, glue, fish meal, and fish oil. In addition, there are a number of commission merchants who handle shipments of fish and shellfish to the Boston market.

Boston is not only an important producing center, but it also offers a market for fish from other sections of the country. Receipts of salmon and halibut from the Pacific Coast; frozen swordfish from Japan; frozen shrimp from the Gulf; fresh-water fish from the Great Lakes and inland States; and large quantities of lobsters, other shellfish, and fish from the Maritime Provinces of Canada and from Newfoundland add to the supply of native varieties.

The importance of Boston as a fishing port is emphasized by the amount of fish landed during the last 7 months in 1938, the period during which the Market News office operated. Landings totaled 174,569,000 pounds, valued at $4,249,000, during this period. Haddock accounted for 67,565,000 pounds, valued at $1,596,000, or 39 percent of the total receipts and 38 percent of the total value. Cod followed with 40,173,000 pounds, valued at $873,000. This represents 23 percent of the landings and 21 percent of the value. Rosefish (redfish) came next in poundage with 18,132,000 pounds, valued at $222,000, forming 10 percent of the catch and 5 percent of the value. Mackerel, with 11,545,000 pounds, valued at $386,000, made up 7 percent of the receipts and 9 percent of the value. Species landed in lesser quantities included, in the order of their importance, pollock, flounders (blackbacks, dabs, gray sole, lemon sole, and yellowtails), whiting, hake, cusk, swordfish, halibut, and wolffish (catfish).

The above totals do not include the fish landed and sold to dealers across the harbor on Atlantic Avenue; the quantity landed by undertonnage boats; imports; nor the receipts of fish and shellfish by truck, rail express, rail freight, and coastwise vessels.

Early in 1939 the Boston office began to release a monthly summary of the receipts and prices of a number of the more important species landed at the Fish Pier and sold through the New England Fish Exchange. The summary is a daily compilation of the quantities landed, the first sales prices, and the average prices. A series of comparative figures for the current month, the preceding month, and the preceding year also are included.

The activities of the Boston office and the issuance of the daily report and the monthly summary were under the supervision of B. E. Lindgren, Senior Fisheries Marketing Agent. He was assisted by C. W. Morrison, Junior Fisheries Marketing Agent, and J. J. O'Brien, Senior Clerk-stenographer.

CHICAGO, ILL.

The Chicago Fishery Market News office, through a daily Fishery Products Report and a monthly summary of wholesale receipts, records the receipts, prices, and similar valuable information concerning fishery products, mainly fresh water, entering Chicago. The first daily report was released September 1, 1938. The daily report provides current information on the arrivals of fish by means of a tabulation of truck, rail express, and rail freight arrivals each morning. Species and poundage are shown as well as the shipping State or Canadian Province. Market prices received by shippers are quoted daily in considerable detail. The movement of fishery products into and out of cold storage is reported daily for approximately 45 varieties. Each week holdings are published for the current and preceding weeks and for 4 weeks previous. When sufficient data have accumulated, holdings for the previous year also will be incorporated.

Summaries of the wholesalers' receipts have been issued monthly since September 1938. They include tabulations of receipts by quantity, species, method of transportation, and State or Province of origin.

During the first 6 months the Chicago office operated, nearly one-fourth of Chicago's fresh- and frozen-fish receipts consisted of two species—lake trout and halibut. The large contribution of these two single species to the total receipts is surprising, in view of the fact that scores of other varieties of fresh- and salt-water fish are handled in the local market.

The species leading in importance with respect to receipts included, in addition to lake trout and halibut, the following, in order: Sauger, shrimp, yellow perch, oysters, whitefish, lake herring, yellow pike, rosefish, carp, and chubs. These 12 species accounted for more than 80 percent of the total receipts for the 6 months. During the same period, 18 additional species of fresh and frozen fresh-water fish, 32 additional salt-water species, and 13 other shellfish and miscellaneous commodities—a total of 75 species—were received in Chicago.

During the 6-month period aggregate receipts of fresh and frozen fish and shellfish in the Chicago market amounted to 19,200,000 pounds, or an average of 3,200,000 pounds each month. This quantity would supply 1 pound of fish per capita each month to Chicago's population. However, a considerable part of the fish received in Chicago is not consumed locally but is reshipped to communities outside Chicago. During the month of February 1939 reconsignments of fishery commodities amounted to about 1,000,000 pounds, or nearly one-third of the total receipts during the month. Such reconsignments are said to reach as high as 60 to 75 percent of the total receipts in some months, but in others they may amount to only 20 to 25 percent, or less.

As might be expected, due to its closer proximity to the fresh-water producing areas of the United States and Canada, Chicago is primarily a fresh-water fish market. About 3 pounds of fresh-water varieties are received to each 2 pounds of salt-water species. It is interesting to note, however, that 4 salt-water species are included among the 12 most important varieties. These are halibut, from the Pacific Northwest; shrimp, from the Gulf Coast; oysters, from the Atlantic Coast; and rosefish, from New England. The fresh-water varieties emanate largely from the Great Lakes of the United States and Canada; Lakes Manitoba, Winnipeg, Rainy, Dauphin, Nipissing, and Nipigon, Lake of the Woods, and the Pigeon River of Canada; and the Mississippi River and tributaries of the United States.

Virtually all fish received in Chicago arrive by three types of carriers. These are, in order of their importance: Rail freight, motortruck, and rail express. While rail freight leads among the types of carriers when considering all receipts, we find that it follows the motortruck when considering receipts from domestic sources only. This predominance of the motortruck in carrying domestic fish is influenced especially by the hauling of fresh-water fish from neighboring States. However, the truck also is an important factor in more distant hauls; for instance, truck receipts of rosefish from Massachusetts for the 6-month period amounted to the equivalent of nearly 30 carloads. Considerable quantities of other groundfish also were received by truck from New England and truck shipments of shucked oysters from Chesapeake Bay were important. In earlier years steamers transported quantities of fresh-water fish from lake ports to Chicago by water. More recently, this factor in the receipt of fish at this market is considered negligible. Between a million and a million and a half pounds of fish normally are landed each year on Chicago's lake front by local commercial fishermen.

Chicago's distribution of fresh and frozen sea food is largely effected through its 62 wholesale dealers, 10 brokers, 10 hotel and restaurant supply firms, and 14 fish smokers; all of which are primarily direct receivers. Some 200 retail dealers who handle fish exclusively may at times receive direct shipments; however, most of their requirements are purchased through the Chicago wholesale market.

With only a few exceptions Chicago's wholesale dealers, who are direct receivers of fishery products, are concentrated in a central location west of the downtown business section. All receipts must be brought to this market by truck since it is not located on the water nor is it served directly by rail. Cold-storage plants are situated in the same general area, being readily accessible for either the storage or withdrawal of fishery products. The Fishery Market News Service office is within one block of the market area.

Delivery of fish from the Chicago wholesale market to local and suburban buyers may be effected either by trucks owned by the wholesale dealers or in the trucks of the buyers. The services of trucking agencies or rail express are used for longer hauls. Frequently, in the instance of carlot sales, the entire car is diverted to the buyer without a preliminary opening in Chicago. This occurs quite frequently in sales of halibut and salmon arriving from the Pacific Coast.

The old-style fish hucksters are factors of decreasing importance in the distribution of Chicago's fish, but they are being replaced by modern so-called hucksters who operate up-to-date refrigerated trucks on established routes throughout the outlying sections of the mid-Central States.

During 1938 the activities of the Chicago office and the issuing of the daily report and monthly summary were supervised by E. C. Hinsdale, Fisheries Marketing Agent, assisted by B. F. Lucarz, Junior Clerk-stenographer.

SEATTLE, WASH.

The Seattle office of the Fishery Market News Service issued its first daily Fishery Products Report on October 1, 1938. The report includes data on the daily receipts and prices of fishery products at Seattle, with separate sections for each major fishery. Statistics on imports of fresh, frozen, and cured fishery products from British Columbia and coastwise vessel receipts from Alaska are also shown. Other features include halibut landings and prices at Prince Rupert, as well as carloads of fish shipped daily from Prince Rupert and Seattle. Through daily telegrams from New York and Boston, data are included on Eastern market supplies and prices of West coast fish and competing species, as well as the cold-storage movement and holdings of important varieties.

An addition to the Seattle Market News report, effective May 1, 1939, is the daily coverage of halibut and salmon landings in southeastern Alaska. The receipts and prices of these species at Juneau, Ketchikan, Petersburg, and Sitka on a daily basis, and Wrangell on a weekly basis, are now incorporated in these reports. During 1938, Alaska halibut landings amounted to nearly 8,000,000 pounds, and troll-caught salmon landings in southeastern Alaska exceeded 10,000,000 pounds. Information on the daily receipts and prices of these species in Alaska adds materially to the value of the reports.

During the 12-month period ending December 31, 1938, there were nearly 51,000,000 pounds of fishery products landed at Seattle by vessels of the halibut fleet and other local craft. These products had a basic value of $3,275,000 to the fishermen. In addition, it is estimated that approximately 20,000,000 pounds of halibut and salmon were received in Seattle by coastwise vessels from Alaska and freighters from British Columbia.

Of the Seattle fish receipts, two species—halibut and salmon—contributed over 72 percent; halibut leading all species with 41 percent of the total receipts. Only 8 other species of fish were received regularly by Seattle wholesale dealers during 1938. These, in the order of their importance, were: Flounders, 4,048,500 pounds; sablefish, 2,756,400 pounds; "lingcod," 2,708,200 pounds; herring, 727,400 pounds; rockfishes, 620,500 pounds; cod (true cod), 432,200 pounds; smelts (eulachon and silver), 320,800 pounds; and perch, 121,900 pounds. There were also approximately 800,000 pounds of albacore tuna received in Seattle, nearly all of which was frozen for canning at Anacortes. In addition, small quantities of California mackerel, barracuda, bonito, sea bass, and yellowfin and bluefin tuna are also received for the Oriental trade.

Of the shellfish receipts at Seattle, the "Dungeness" crab is the leading item, amounting to 1,752,900 pounds, valued at $79,068 to the fishermen. Most of these crabs are taken in the ocean off Willapa and Grays Harbors. Other species of shellfish received in Seattle include Pacific and Olympia oysters, hard-shell clams (butter and little-neck), razor clams, bay scallops, shrimp, octopus, and squid. The Olympia oyster is one of the highest-priced species of shellfish in this country, selling wholesale in Seattle at $8 per gallon. Octopus and squid are consumed almost entirely by the Orientals. In this connection it is interesting to note that the Puget Sound production of squid is not nearly enough to take care of the local demand. Considerable quantities of fresh squid are received from Monterey, Calif., and last fall a carload of frozen squid was shipped from Massachusetts to Seattle. The local supply of shrimp is nearly exhausted, and Seattle depends largely on Alaska shrimp meat for this sea food. There are occasional shipments of California shrimp to Seattle, and an attempt is now under way to market frozen headless shrimp from Texas in Seattle.

Over 90 percent of the Seattle wholesale fish business is conducted by 12 establishments. Of these, six firms handle over 75 percent of the fishery products coming into Seattle. There are two fish exchanges, one for halibut-fleet landings and the other for selling troll-caught salmon of the Fishermen's Cooperative Association. The halibut exchange is operated by 10 wholesale firms and is called the Seattle Fish Exchange. Bidding is open only to member dealers, and the minimum bid change permitted is one-eighth cent per pound. The hailing fare of a halibut vessel must be posted on the board by 9 a. m., if it is to sell that day. A dealer must bid on the entire fare. There are no split trips sold over the exchange.

The salmon exchange, operated by the Fishermen's Cooperative Association, is similar to the halibut exchange. Bidding is graduated in eighths of a cent, and is open only to members of the Seattle Fish Exchange. Truck deliveries of salmon from the Washington coast, as well as deliveries by fishing craft and transporters from Neah Bay, are sold over this exchange. Receipts of other fishery products at Seattle are by direct purchases. In this case a price is usually set at the beginning of the season and is generally constant throughout its duration. Most of these prices are for delivery in Seattle, which leaves the trucking charges to the fishermen. As a rule the dealers send their fishermen a check once a week when several deliveries are made during the week.

There are five fish freezers and cold-storage plants in Seattle, in addition to one cold-storage plant for mild-cured salmon and salted herring. Two of the fish freezers are owned by wholesale fishery firms, two are privately owned freezers, and the other two are operated by the Port of Seattle.

Fishery products arrive at Seattle almost entirely by vessel or truck. An occasional "less than carload" rail shipment from Vancouver, B. C., or Astoria, Oreg., is received. In the past there have been carloads of fish and shellfish to Seattle from the Atlantic Seaboard, but these are now rare. At times Seattle receives large quantities of fresh and frozen halibut and salmon from Alaska and British Columbia. Arrivals of over 250,000 pounds of fish from Alaska in 1 day are not unusual. Receipts of white king salmon for kippering and large red kings for mild cure from British Columbia have exceeded 3,000,000 pounds annually at Seattle.

Unlike most cities, Seattle's wholesale fishery dealers are not concentrated in one location. There is no "fish pier" or wholesale fish-trade section. Most of the dealers are located on piers at which fishing craft may discharge their fares. Although the dealers are situated at widespread intervals along the water front the arrangement is not necessarily inefficient, since most vessels sell their entire catch to one firm. All companies on the water front are adequately served with spur tracks and facilities for transportation by truck over short or long hauls. The Fishery Market News Service office is located near the fish exchanges and the greatest concentration of dealers.

The cold-storage plants are spread out as widely as the dealers. Most are served both by steamship and railroad.

During 1938 the Seattle office was operated and the daily reports were issued under the supervision of V. J. Samson, Fisheries Statistical and Marketing Agent, assisted by K. G. Nordquist, Junior Clerk-stenographer.

JACKSONVILLE, FLA.

Late in 1938 the Jacksonville Fishery Market News office was established and preparations made to issue a daily report on fishery products. The first report was issued on March 6, 1939. Current data are published covering the production and prices of fish and shrimp produced on both coasts of Florida—from Fernandina to the Florida Keys on the Atlantic Coast, and from Everglades to Pensacola on the Gulf. Since the coast lines are long, and the fishing areas not only numerous but also widely separated, it is not possible to procure complete information on all varieties and for all localities with the funds and personnel available. To improve this situation part-time agents are being placed in several of the more important production centers on both coasts in order that a full report may be secured for these areas. It is believed that complete knowledge of the activities in several areas on each coast will be more valuable than partial information from the whole State, and will indicate the trend of production and price in the State generally.

Since Jacksonville is an important distribution point for fishery products bound for markets in other States, a record of outgoing shipments by rail freight, rail express, and motortruck is carried in the report. Through a cooperative arrangement with the Florida State Department of Agriculture, data on truck shipments are obtained in considerable detail. This information includes the quantity of each species and the destination by State. Data on the county of loading in Florida also are secured but not published. Receipts and prices of Southern fish and shellfish and competitive Northern species on the New York market are received by wire, and reported together with a summary of landings and first sales prices at Boston. The movement and holdings of fishery products in a number of the most important cold-storage plants in the South Atlantic and Gulf States are shown on a weekly basis with comparative holdings for the preceding week and for 4 weeks previous. The cold-storage plants are located from North Carolina to Texas. The varieties stored are divided into 34 classifications, 24 being salt-water fish, 4 fresh-water fish, and 6 shellfish.

At frequent intervals, through the cooperation of the Food and Drug Administration, data on shrimp packed in canneries utilizing its Seafood Inspection Service are released. The information includes, for each period and for the season, the number of plants operating, the number of days operated, the quantity of raw shrimp received, the pounds of raw shrimp packed, and the number of standard cases of shrimp canned. The shrimp canneries number about 40 and are situated in Georgia, Florida, Alabama, Mississippi, Louisiana, and Texas.

The Fishery Market News Service office is located in the downtown section of Jacksonville, one block from the St. Johns River. In this area most of the wholesale fish dealers are concentrated. They are favorably situated with respect to all forms of transportation utilized for either incoming receipts or outgoing shipments. Spur tracks are available near most of the establishments for carlot shipments, and the express terminal is easily reached with a minimum of interference from city traffic. Fishing craft and commercial steamships berth at piers extending into the river. Shipment by truck is facilitated, since the location is but one block from the main highway traversing the city. Although the cold-storage plants do not adjoin the wholesale fish-trade section they are readily accessible.

In 1938 the Jacksonville Fishery Market News office was supervised by S. C. Denham, Fisheries Statistical and Marketing Agent. He was assisted by J. E. Borum, Junior Clerk-stenographer.

COOPERATIVE MARKETING

The cooperative marketing unit of the Division was under the direction of L. C. Salter from the time of its organization in 1935 until December 31, 1937, when he resigned from the Bureau's service to accept a position with the Tennessee Valley Authority. Following this the unit was administered directly under the chief of the Division until August 1938 when Ralph Russell, Associate Fishery Economist, was appointed to take charge of the unit.

Since his resignation, Mr. Salter has been working on the preparation of a report incorporating the results of much of his survey work with the Bureau. This report, when completed and released, will cover much valuable information concerning the operation of fishery cooperatives.

During 1938 work was continued on the collection of data relating to fishermen's cooperatives and other organizations in this country and abroad. During the past year cooperatives have been organized in several States. Appeals for assistance in the organization of cooperatives have been received from many sections of the country, and such assistance has been rendered as has been possible with the limited staff and funds available for this work.

Arrangements have been completed to enlist the aid of statistical and marketing agents of the Bureau, who visit virtually all the commercial fishing areas of the United States each year, to assist in keeping the data on fishermen's organizations current. They will obtain reports from fishermen's cooperatives during the course of their surveys and forward them to the Washington office for study. This procedure should facilitate the maintenance of adequate files on the status and activities of domestic cooperatives.

A possibility for further cooperative activity by fishermen, which seems at present to have been but little explored, is the opportunity of joining cooperatives already formed. For instance, supplies of various kinds, particularly petroleum products, are handled by cooperatives operating over large areas. Fishermen in some cases may become members of these cooperatives or induce the cooperatives to set up branches in locations accessible to the fishermen. Credit unions, which are cooperative savings and loan associations, have been extensively developed. These would seem to offer to fishermen a possibility of assistance through accumulating and borrowing capital by membership in such organizations. Cooperatives furnishing groceries and other consumers' goods also are available to fishermen in some parts of the country. Through joining these and other cooperatives, fishermen may make economic gains and learn cooperative techniques which may apply in their own occupation.

The Bureau offers its assistance to groups of fishermen interested in the forming of cooperatives to the extent that its facilities can be devoted to this end.

TECHNOLOGICAL INVESTIGATIONS

As has always been emphasized in previous annual reports of this Division, the primary purpose of our technological investigations is to bring about more efficient and more profitable utilization of the products of our fisheries. This is in line with, and in the best interests of, the conservation of the natural resources of this country because, in its broader sense, conservation includes the wisest and most complete utilization of our fishery harvest that modern science can make possible. Thus, technological investigations of the Bureau of Fisheries have been devoted to the improvement of existing methods and the development of new methods of utilization and preservation of aquatic products. Widening the uses of these products is another important phase of the work of our technologists. As the result of such studies during the past years, our technologists have been able to suggest gradual improvements in the industry and some of these suggestions have been placed in practical use. It is believed that there could be more widespread utilization of these improvements to the ultimate profit of the industry.

Furthermore, our technological investigations, from time to time, have resulted in outstanding discoveries which have been the basis of new industries in the fisheries. A number of these discoveries were discussed in the 1937 annual report of this Division and referred to such subjects as the new domestic industry of producing fish oils and fish-liver oils as sources of vitamins A and D for both human and animal nutrition, the rapid discoveries and developments in the quick-freezing industry in which technologists of this Bureau pioneered, and the improvements and increases in the manufacture of fish meal as a highly important ingredient of livestock feeds.

LABORATORIES

During 1938 the Division carried on its technological studies under the direction of Dr. J. R. Manning, Senior Technologist, at its laboratories located in Washington, D. C., College Park, Md., and Seattle, Wash. In addition, members of our technological staff cooperated in the conduct of investigations in the laboratories of the University of Maryland and Maryland State Agricultural Experiment Station at College Park, Md.; the University of Washington, Seattle, Wash.; and Washington State College, Pullman, Wash.

By means of funds allotted from the Public Works Administration and the Works Progress Administration, improvements were made during the year to the technological byproducts laboratory building and the chemical laboratories in Seattle, Wash. These included the placing of a brick veneer on the outer walls of the byproducts building, painting the interior, and staining the roof of this building, installing compressed-air lines and an additional sink, including lead linings in the floor drains and sumps, painting the walls in the chemical laboratories, and constructing a tunnel dryer and a combination brine and sharp freezing cabinet.

The major portion of the work of the Seattle laboratory organization in 1938, as in past years, consisted of investigations of byproducts, although some studies were made in the general field of preservation of fishery products for food. The greater part of the work of the College Park laboratory organization was devoted to chemical and bacteriological studies in connection with the preservation of fishery products for food, and pharmacological and nutrition studies of the constituents of fishery products, although some work was done on byproducts in connection with the chemical preservation of fish waste or waste fish. The work of the Washington laboratory was confined to studies on the canning of fishery products.

The following personnel, in the various laboratories listed below, contributed to the technological investigations described in the ensuing pages of this report:

College Park, Md.—J. M. Lemon, Technologist in Charge; W. T. Conn and S. R. Pottinger, Assistant Technologists; Dr. H. W. Nilson, Assistant Pharmacologist; C. F. Lee, W. B. Lanham, Jr., and A. L. Fowler, Junior Chemists; J. F. Puncochar and Dr. R. J. Reedy, Junior Bacteriologists; H. E. Crowther, C. E. Swift, and R. H. Flowers, Research Associates; L. F. Ortenzio, H. F. Kraybill, N. G. Sprague, L. J. Barton, R. C. Dawson, Roscoe Dwiggins, J. D. Rollow, D. K. Worgan, and Ned Oakley, student assistants.

Seattle, Wash.—R. W. Harrison, Technologist in Charge; M. E. Stansby, Assistant Technologist; Charles Butler, William Clegg, Jacob Ash, and Mrs. Marie Sater, Research Assistants.

Washington, D. C.—N. D. Jarvis, Associate Technologist.

PRESERVATION OF FISHERY PRODUCTS FOR FOOD

During 1938 studies on the preservation of fishery products for food consisted of the following projects: Studies of rancidity in fish; studies of lactic acid as a possible index of decomposition in frozen fish; identification of canned salmon; changes in the composition of pink salmon (*Oncorhynchus gorbuscha*); composition of commercial species of fish taken on the Pacific coast; and canning aquatic products.

STUDIES OF RANCIDITY IN FISH

This project has been under investigation for the past several years. It is one which presents some very difficult technical problems. We have been conducting it in cooperation with the Musher Foundation, Inc., of New York City, as that organization is interested in the application of certain antioxidants in all of the food industries and had already carried out considerable original research on the problem of preventing the various forms of rancidity in different types of foods before our technologists undertook a study of the aspects dealing specifically with fishery products. The Bureau's Seattle and College Park laboratories have both been working on the project, but dealing with different phases of it, and the Musher Foundation has employed and stationed research associates in both of these laboratories for this purpose. Progress reports have been published from time to time, as described in previous annual reports of this Division and, during 1938, a report was given at the September meeting of the American Chemical Society in Milwaukee, Wis. This report deals specifically with the use of a water extract of the active principle of oat flour as the antioxidant. Boston mackerel were treated with this extract and then frozen by the usual commercial method. As a means of comparison, control samples of Boston mackerel were given the usual commercial handling without the application of the extract of antioxidant and were frozen. Periodic examinations of these samples over a period of 6 months indicated that those fish treated with the oat flour extract were of definitely superior quality to the untreated samples.

These results are very interesting because earlier studies of the direct application of oat flour, or solvent extracts prepared from oat flour, gave only a very mild protective action, not sufficiently pronounced to attract the interest of the fishery industries for commercial application. Moreover, the direct application of oat flour detracted from the appearance of the resultant product and the solvent extracts were of limited application because of their oily nature. However, tests conducted in the College Park and Seattle laboratories thus far of the water-soluble extracts of oat flour and concentrates prepared therefrom did not affect the appearance of the fish so treated and, as indicated above, were much more effective in retarding rancidity. Therefore, these water-soluble extracts of oat flour are being tested on fresh salmon prior to canning, mild-cure salmon, kippered salmon, frozen salmon, and frozen halibut. In the case of the mild-cure and kippered salmon, the extracts were used in conjunction with the normal brining processes while in the frozen products the extracts are being used in connection with washes prior to freezing and in the glazing bath. Since these latter tests are now being run under commercial storage conditions, sufficient time has not elapsed to permit definite conclusions. So far, only moderate improvement has resulted. Such results must be attributed more to the extreme difficulty of retarding rancidity in fish oils than to the lack of effectiveness of the cereal flour products as antioxidants.

STUDIES OF LACTIC ACID AS A POSSIBLE INDEX OF DECOMPOSITION IN FROZEN FISH

Progress on this project was interrupted during 1938 because of the resignation of the investigator assigned to the problem. Another chemist has recently been assigned to the work.

It is known that lactic acid rises to a maximum content in fish muscle during the rigor of death, and the importance of muscular rigor, in its relation to the onset of spoilage in sea fish, has been emphasized by other investigators in this field. It has also been shown that the alkaline reaction of fish muscle and the accompanying onset of spoilage of the fish follows after the loss of muscular rigor. Thus it is evident that, since spoilage occurs after the lactic acid content of the fish muscle reaches a maximum, the determination of lactic acid in fish flesh before and during a period of cold storage is of value in obtaining direct knowledge of the processes of decomposition of fish.

Recently, sea trout have been obtained by our technologists from Chesapeake Bay and have been frozen under varying conditions of freshness. Lactic acid determinations have been made on these fish before storage and at regular intervals during storage. Results obtained at this point of the investigation indicate that the lactic acid content of sea trout muscle varies from 0.05 percent to 0.40 percent. Sea trout frozen while in muscular rigor show a higher lactic acid content than those frozen under the other conditions of relative freshness or decomposition.

IDENTIFICATION OF CANNED SALMON

Studies on the possibility of differentiating between the species of salmon, on the basis of the refractive index and color of the free oil in the canned product, were continued. A statistical analysis of the data obtained during the preceding year indicated that the data at hand were not sufficient for satisfactory interpretation. Accordingly, additional samples have been taken, and sampling will be continued until enough data have been obtained to permit a thorough investigation of the reliability of such a method for identifying the various species of salmon after canning.

CHANGES IN THE COMPOSITION OF PINK SALMON (*Oncorhynchus gorbuscha*)

Pacific salmon, especially the pink or humpback, are known to undergo considerable physical change during their spawning migration. This change is manifest by a gradual decrease in the pigmentation of the flesh, softening of flesh texture, and a decrease in the fat content of the edible portions. Generally speaking, the fish are believed to become poorer in quality until a point is reached where they are considered no longer suitable for canning. Salmon, however, are consumed as a protein food and very little information is available regarding the relation of these apparent changes to the nature of the protein present.

A chemical study of this problem was undertaken during the summer of 1937 and was continued during the past year. The actual chemical determinations have been completed and the data are being assembled and analyzed for publication. While it is considered inadvisable to draw definite conclusions at this time, the data, which involve analyses for moisture, fat, protein, ash, soluble nitrogen, heat coagulable soluble nitrogen, free amino nitrogen, copper precipitable nitrogen, phosphotungstic acid precipitable nitrogen, and the amino acids cystine, tyrosine, tryptophane, and arginine, would indicate that the pronounced change in the appearance and texture of the flesh is accompanied by much less change in its chemical nature.

COMPOSITION OF COMMERCIAL SPECIES OF FISH TAKEN ON THE PACIFIC COAST

The Bureau of Fisheries receives numerous inquiries from both the producer and consumer of fishery products regarding the composition of various food fish and the relative amounts of wastage involved in dressing. In seeking the necessary information, it is found that much of the data required is either not available or of a very fragmentary nature. Accordingly, during the past year studies were undertaken for the purpose of determining the relative proportion of edible and inedible material in food fish taken commercially on the Pacific coast and to determine the "proximate" chemical composition of the edible portion. The measurements include percent dressed weight, percent trimmings, percent viscera, percent liver, percent flesh, percent bone, percent skin based on the round weight of the fish, the proportion of the dressed weight which is flesh, bone, and skin, and percent moisture, fat, protein, and ash in the edible portion. Numerous samples of each of 22 different species of fish have been analyzed to date. These are: Albacore tuna, sea bass, gray cod, "lingcod," red cod, rock cod, lamprey eel, starry flounder, halibut, herring, sea perch, pilchard, orange rockfish, sablefish, chum salmon, pink salmon, silver salmon, sockeye salmon, roe shad, English "sole," king "sole," and turbot. The analyses are being continued and the data will be assembled in report form.

CANNING AQUATIC PRODUCTS

For the past several years one of our technologists has been engaged in the development of methods for home or noncommercial canning of fish. Several publications, described in previous annual reports of this Division, have been published by the Bureau on this subject. The work on this project has now been completed and a final report has been prepared for publication. This report will include recommended methods of canning many fishery products not discussed in previous publications on the subject. These methods are designed primarily for the housewife or for the canning of fish in small quantities in the home, and cover enough species of fish so that all sections of this country where fish are taken may benefit from the results of this work. The species of fish and shellfish for which home canning methods have been developed, are: Alewives, herring, alewife or river herring roe, carp, suckers, fish roe, mackerel, lake trout, whitefish, mullet, mackerel (ready cooked salt-mackerel style), smoked mackerel and mullet, salmon, shad, spiced fish, king mackerel, mackerel and swordfish (tuna style), whiting, whole clams, minced clams, oysters, Atlantic and Gulf coast crab, Dungeness or Pacific coast crab, devilled crab, crab gumbo, crab soup (Norfolk style), shrimp (wet-pack method), fish chowder, New England clam chowder, and Manhattan or Coney Island clam chowder.

Studies on the canning of the blue crab were continued, with the preparation of experimental packs under commercial conditions and on a semicommercial scale. Other experimental packs were made to confirm conclusions reached in the work of the previous year. Examination of these packs of crab meat showed no deterioration or discoloration after a storage of as much as 18 months. We expect to publish the results of this work during the coming year.

As has been discussed in the annual reports of this Division in recent years, there has been a considerable demand from the various commercial fish-canning industries of the United States for a comprehensive manual describing existing methods of canning fish and shellfish in the United States, thus bringing this information up-to-date with any recommendations for improvements that a technical survey might reveal. Surveys of the fish-canning industries of the South Atlantic and Gulf of Mexico areas, and of the Pacific coast, were made during 1938; thus completing the study for the whole country. A full report covering the information obtained in this Nation-wide survey, showing cannery plans, illustrations, and other useful information, is almost finished and will be ready for publication in the near future.

In addition to the above-mentioned investigations in the canning of fishery products for the home and in commercial operations, interest in the Bureau's work in this field has been stimulated to the point that we have had to supply a rather complete technological consulting service to the industry on the various technical problems in fish canning.

BACTERIOLOGICAL STUDIES

During 1938 the need for expanding our facilities for bacteriological research became acute and, as indicated earlier in this report, the Bureau established at College Park, Md., a new bacteriological laboratory in additional space provided free of charge by the University of Maryland in its Horticultural Building on the same floor and across the hall from space now occupied by the Bureau's other technological laboratories. The separation of the bacteriological laboratory unit from the chemical laboratory has been of considerable help in furthering the work of this unit.

STUDIES OF ULTRAVIOLET RAYS IN KILLING BACTERIA

This project was begun late in 1937 and a part of it has been completed. Results on the completed portion are described in Investigational Report No. 43, "Some Effects of Ultraviolet Irradiation of Haddock Fillets," published by the Bureau. According to the conclusions in this paper, irradiation of haddock fillets for a period of 2 minutes produced definite bactericidal effect, and irradiation for a period of 2 hours was found to increase the vitamin D potency of the fillets. Further tests are being conducted to determine the extent to which this process may be applicable on a commercial scale by experiments on more species of fish under varying conditions and periods of irradiation.

STUDIES IN THE HANDLING OF FRESH OYSTERS

As stated in last year's Divisional report, the purpose of this investigation is to develop and recommend improved methods for handling fresh oysters. When oysters are first shucked, the pH is nearly 7.0, indicating a neutral reaction of the flesh. During the first few days of storage, the pH rapidly decreases until a point of approximately 6.10 is reached. It then decreases much more slowly until it reaches a pH of 4.50. Below this point oysters become so sour that they are unfit for food. During this same period of change in the pH, the bacterial count declines to a minimum, after which it begins to rise rapidly as a result of the increased acidity of the oysters. The experiments also show that the bacterial flora changes with the acidity of the oysters. It was further found that excessive washing of the oysters with fresh water caused a loss of mineral content, in some cases from 1.50 percent to 0.18 percent.

STUDIES OF METHODS OF PREPARING CRAB MEAT

At the request of a group of crab-meat packers, funds were provided to this Bureau by Congress, effective July 1, 1938, for the purpose of making a chemical and bacteriological investigation of existing methods of preparing crab meat, in the hope that improvements in such methods could be recommended to the industry. The 6 months which have been devoted to this survey have been concerned largely with the bacteriological phases of the problem. Following a survey of equipment and methods used by the packers of crab meat in the Chesapeake Bay area, a temporary field laboratory was established at Crisfield, Md., in which bacteriological and chemical examinations of commercial samples of prepared crab meat were made for the purpose of making definite recommendations designed to improve handling practices.

As a result of a thorough study of the methods employed by the various crab-packing plants, several recommendations were made to the packers which should result in definite improvement of the product. A detailed report on the results obtained thus far in this investigation has been prepared and will be published in the near future.

PHARMACOLOGICAL STUDIES

As more has become known in recent years concerning the importance and significance of fishery products in the diet of man and his domestic animals, there has been an increasing demand for knowledge concerning the physiological effects of the different constituents of fishery products under the varying conditions under which they are manufactured and included in man's diet or in the rations of livestock. This particularly involves the metabolism of mineral constituents such as copper, arsenic, and fluorine. It also concerns studies of possible toxicity of products such as fish meal when improperly manufactured, or when decomposed due to careless conditions of handling after manufacture and before reaching the feed manufacturer or ultimate consumer.

CHEMICAL AND PHARMACOLOGICAL STUDIES OF THE FLUORINE IN FISHERY PRODUCTS

As stated in the 1937 report of this Division, a high content of fluorine in the diet has been responsible for mottled enamel of teeth in both man and domestic animals. In cases where this difficulty has been particularly noticeable, the fluorine has been traced to mineral mixtures of inorganic origin incorporated in the diet. However, as a result of this difficulty, there has been a demand for more knowledge concerning the fluorine content of such food products as meat and fish and the physiological effect of fluorine from a natural food source as compared with fluorine of inorganic origin. Because of this situation, our technologists, in 1937, began chemical and pharmacological studies of fluorine in fishery products. Our work thus far has been confined to canned salmon and canned mackerel. Chemical analyses of the samples used in the tests showed a content of 5.8 parts per million of fluorine in the salmon on a fresh basis and 27 parts per million of fluorine in the mackerel under similar conditions. These samples, supplemented only by vitamin concentrates, were fed as the diet of albino rats in the Bureau's laboratories. No gross toxic effects were observed in any of the rats fed either species of fish during a test period of 12 weeks. However, an examination of the teeth of the experimental animals with a low power lens at the close of the test showed that the rats receiving the mackerel had developed fine white striations across the normal yellow of the enamel. None of the rats receiving the salmon showed any effects of striations and in no case was there any structural defect or abnormal growth of the teeth noted.

Analyses of the carcasses of the rats showed a close correlation between the amount of flourine ingested in the food and the amount stored in the body of the rat. Whether the source of fluorine was mackerel or salmon, approximately 20 percent of the ingested fluorine was stored in the body of the animal in most cases. The average amount of fluorine in the bodies of the rats at the close of the test was slightly over 18 parts per million for the groups fed salmon, and about 74 parts per million for those fed mackerel. The data show an inverse correlation between rat weight and the unit level of fluorine (in terms of parts per million). This was most marked where the variation in weight of the rats, within a group at the close of the test, was large. In other words, when the food intake and the rate of growth were below normal, a higher than normal percentage of the ingested fluorine was stored, and vice versa. These statistical or mathematical ratios, along with more detailed data, will be presented in a separate report to be published in the near future. However, it is well to point out here that, at the low levels of percentages of fluorine fed in the diet, a much higher percentage of the fluorine of inorganic origin added to the diet of the rat was stored in its body than was the case with the fluorine of inorganic origin.

POSSIBLE TOXIC PROPERTIES OF CERTAIN FISH MEALS

Fish meals, as now produced on a commercial scale in the United States, are manufactured under a great variety of conditions and, therefore, differ considerably in composition and quality. These variations are due to differences in chemical composition and relative freshness of the raw material from which the fish meal is made, differences in methods of manufacture and equipment used, and differences in conditions of handling, storage, and shipment. Furthermore, fish scrap or meal was originally produced in this country primarily for use as an ingredient of commercial fertilizers, and it has only been in recent years that the major portion of it has been used as an ingredient of mixed feeds and of livestock rations. Therefore, the transition of the industry from the old methods of processing, suitable for a product of a fertilizer grade, to improved methods of manufacture necessary to produce feed concentrates of quality has naturally been a gradual one. Consequently, in a situation as described above, Federal and State regulatory feed officials and chemists have encountered quite a problem in the equitable judging of quality of fish meals in connection with the administration of feed laws. Likewise, feed manufacturers have expressed a desire for sufficient information to determine when a fish meal is suitable for animal feeding and when it is only of fertilizer grade. Since decomposition or spoilage of any food or feed product is a progressive change and a relative term, and since it is well known that some types of decomposition are not objectionable or harmful, there was a considerable demand from both producing and consuming industries interested in fish meal that the Bureau's technologists investigate the possible toxic properties of fish meals prepared from partially decomposed fish or under other adverse conditions of manufacture, handling, or storage.

Therefore, during 1938, chemical and pharmacological studies were inaugurated on this project. The fish meals used in these tests were menhaden, California sardine or pilchard, and so-called white fish meal prepared from trimmings of cod, haddock, and other ground fish. Good commercial meals of varying quality and experimentally spoiled meals were fed to groups of albino rats and baby chicks. There were no significant differences in gains in weight and food intakes of rats fed the commercial and the spoiled meals. Groups of chicks fed the spoiled meal in an otherwise purified diet generally grew faster and had a decreased mortality rate over groups fed the commercial meals. Apparently, conditions in the spoiled fish meals favored the bacterial synthesis of vitamin K and possibly of other vitamins required by the chicks. Data thus far indicate that the spoiled fish meal can be used to advantage as a protein supplement in any ration adequately balanced in vitamins and minerals.

MANUFACTURE OF FISHERY BYPRODUCTS

Studies in this field cover the utilization of the various byproducts of the fisheries and methods for testing and improving their quality.

UTILIZATION OF SALMON CANNERY TRIMMINGS

For the past several years the Bureau has devoted a portion of its technological activities to a study of the problem of utilizing salmon cannery waste. During this time a rather complete survey has been made regarding the nature and the composition of salmon waste, information has been obtained which fully demonstrated the value of salmon oils as sources of vitamins A and D, data have been obtained on the varied chemical and physical properties of these oils which may be expected to elucidate their utility in technical consumption, and assistance has been given the industry in developing an edible oil which can be added to the canned product. This line of attack has been followed because it was believed a better understanding of the nature and potential utility of salmon waste and the products available therefrom would stimulate a natural expansion in utilization.

However, due to the varied economic and technical obstacles prevailing throughout the salmon-canning industry, the general line of study outlined above could not be expected to be of definite help in all situations. Also, increasing utilization of waste material for the manufacture of edible canning oil has led to new problems regarding the best methods of converting the unused waste portions into their most valuable state. Therefore, after having provided a general background, attention is being directed to the development of methods which can be used in meeting specific situations prevailing in the industry.

During 1938 studies have been made on the suitability of small-unit rendering equipment for small canneries not producing enough waste to warrant installation of standard fish-meal and oil machinery. Attention has been given to the response of salmon waste to dry rendering and the conditions necessary to retain the natural properties of the rendered oil. Studies have been undertaken regarding the preparation of dehydrated protein concentrates which would also serve as vitamin A and D concentrates.

In considering conditions where huge quantities of waste are accumulated during an extremely short operating period and where a reduction plant of large capacity would have to be idle over 10 months out of a year, studies have been undertaken regarding methods of chemical preservation and chemical treatment for conversion into entirely different type products which could be prepared with a minimum of equipment. However, because of the limited period during which salmon waste representative of commercial operations can be obtained, the data from these more specialized studies are as yet incomplete and no conclusions can be drawn. The last of a series of papers covering the general aspects of salmon byproducts has been published. This report is entitled, Investigational Report No. 40, "Pacific Salmon Oils."

The results show that the waste material or cannery trimmings of chinook salmon will yield between 30 and 40 gallons of oil per ton; Alaska and coho salmon, from 25 to 35 gallons; pink salmon trimmings, from 15 to 25 gallons; and chum salmon waste, from 10 to 15 gallons. Since between 80 and 90 percent of the total catch of salmon is canned and thus most of the waste material consisting of heads, tail portions, fins, and visceral organs are accumulated in connection with cannery operations, it can be readily seen that there is a large supply of waste material in the salmon canning industry from which oil may be manufactured. The survey further shows that about 30 percent of the round weight of chinook salmon is waste material, about 33 percent of Alaska red, coho, and chum salmon, and about 35 percent of pink salmon constitute waste material from which byproducts may be made. This report also contains tables showing the chemical and physical characteristics and properties of salmon oils such as iodine number, refractive index, specific gravity, etc. This information is of value in determining commercial uses for which the oils are best suited.

STUDIES ON THE PEROXIDE TEST AS A MEASURE OF OXIDATIVE DETERIORATION OF FISH OIL

Oxidative deterioration of fatty fish is a gradual process which eventually manifests itself in rancid odors and flavors readily detected by organoleptic means. When such a condition has been reached, the product is definitely of poorer quality and less desirable as food. In investigations on fish spoilage, the preservation of fish by various methods, and in commercial handling of fish, it is highly desirable to have some measure of the progress of oxidative deterioration prior to the development of rancid flavors and odors, since the problem of marketing is to get a product into consumption before the odor and flavor is definitely affected.

Because of the importance of this problem to all food industries, numerous methods have been proposed for measuring or following the progress of incipient rancidity. One of the most popular tests is that predicated upon the assumption that peroxides are formed as an intermediate step in the development of rancid products and such peroxide compounds break down in the presence of potassium iodide with the liberation of iodine, which can be easily measured. However, when the test, as prescribed for other fatty materials, is applied to highly unsaturated fish oils, the results obtained are not entirely satisfactory. Data are frequently inconsistent and the values obtained appear to be affected by a number of factors which tend to decrease the sensitivity of measurement. In spite of these drawbacks, the method has considerable merit on account of its simplicity, the speed with which determinations can be made, and the fact that no complicated or expensive apparatus is required. Therefore, an investigation was undertaken to determine the possibility of improving the peroxide test so that it could be used as a more reliable tool in investigating oxidative deterioration in fishery products. The progress of the work so far has been most encouraging. Numerous conditions of the reactions have been investigated and a modified procedure has been devised whereby a number of the drawbacks of other procedures are eliminated. The test, however, must be subjected to more rigorous examination before definite conclusions can be made. Should these studies result in a more effective measure of incipient rancidity, future investigations, both scientific and practical, on the handling and preservation of fatty fish will be greatly facilitated.

UTILIZATION OF FISH LIVERS AND VISCERAL ORGANS

The sustained commercial interest in sources of concentrated vitamins A and D has led to increasing demands upon the Bureau for information regarding the utilization of fish livers and visceral organs. In recent reports reference has been made regarding the development of methods for extracting oil or vitamins from various types of material which would not respond to normal treatment. As a result of the data obtained, the Bureau's technologists have been able to advise with the industry on extraction problems and have contributed materially to the expansion in vitamin oil manufacture.

During the past year attention has been directed to a general survey of the potential value of the liver and viscera from all types of food fish taken on the Pacific coast. Analyses for oil content and vitamin A potency have been made on periodic samples involving 22 different species of fish. The oil content of the livers from the species examined ranged from 1.5 to 35 percent and the vitamin A potency of the extracted oil varied from 6,000 to 380,000 units per gram. Viscera less liver and stomachs ranged in oil content from 0.3 to 45.3 percent and yielded oils having vitamin A potencies ranging from 4,500 to 450,000 units per gram. The data will be summarized for publication when the survey is completed.

PREPARATION OF FISH MEALS OF IMPROVED NUTRITIONAL VALUE

The Bureau's interest in fish meal in animal feeding pertains to both terrestial and aquatic animals. During the year technologists of the Division have continued to cooperate with the Department of Poultry

Husbandry at the State College of Washington, the Bureau's Division of Fish Culture, and the School of Fisheries at the University of Washington.

Studies carried on by the Division of Fish Culture and the University of Washington in recent years have resulted in the preparation of a fish meal especially suitable for fish feeding. During the year technologists of the Division of Fishery Industries have cooperated in production studies in order to clarify the steps in preparation responsible for the improved nutritional properties and to determine means of obtaining the same feeding effectiveness by a simpler process of manufacture. The results indicate that the preservation of water-soluble, heat-sensitive extractives contributes to the improved feeding properties and this can be accomplished in simple dry rendering equipment operating under reduced pressure. The studies are being repeated, since the final conclusions may provide the basis for future fish-food plants to be installed by the Bureau and other agencies engaged in fish-cultural work.

STUDIES ON FAT IN FISH MEAL

This project was begun in 1937 and consists of collaborative work of various Government laboratories in the development and gradual improvement of methods of analysis sponsored and coordinated by the Association of Official Agricultural Chemists. Specifically, present studies involve methods of determining oil or fat in fish meal more accurately than existing methods permit. A progress report on the work was prepared and presented at the annual meeting of the Association of Official Agricultural Chemists in November 1938. The accuracy and efficiency of various chemical or organic solvents for determining the amount of oil or fat in fish-meal samples by solvent extraction were tested. Thus, this report contains a table showing the percentages of oil extracted by the various solvent reagents under differing conditions. These figures are of interest to the analytical chemist in determining the comparative accuracy of these solvents in making analyses of this kind.

CHEMICAL PRESERVATION OF FISH AND FISH WASTE

As described in the 1937 annual report of this Division, this project was established by the Bureau as a cooperative arrangement with the Aquacide Co., Washington, D. C., and the studies are being conducted by research associates employed by that company and stationed in the Bureau's laboratories. The work consists in the development and application of chemical compounds for preserving fish livers, cannery trimmings, scrap and other fish waste, either temporarily until these materials can be transported to a central point for further mechanical processing or reduction, or as a permanent preservative in a few instances. Most of the work in 1938 was devoted to the application of a chemical solution, developed by this company, to the preservation of dogfish livers landed at isolated points for subsequent shipment to central fish-oil rendering plants.

About 1,500 barrels of dogfish livers were preserved by treatment with a formaldehyde-soda-ash compound, and, at the end of 9 months of storage, were found to be in good condition. The treated livers were then extracted and the oil was still in good condition, containing approximately 2,000 international units of vitamin A per gram. However, this oil was too low in vitamin D content to be considered as a commercial source of this vitamin.

NUTRITIVE VALUE OF AQUATIC PRODUCTS

This has always been an important phase of our technological investigations because the relative nutritive value of the finished product is in most instances the true yardstick or measure of the value of a new method of processing or an improvement in existing methods in the industry For example, assuming that costs of production are equal in each case, if a new method of manufacturing fish meal, or a new method of freezing fish fillets, produces a finished product of better quality measured in terms of food value, then that is a true estimate of its worth or justification for its commercial application.

MINERAL CONSTITUENTS OF FISHERY PRODUCTS

In recent years, members of our technological staff have been making a detailed study of the mineral content of some of the more important commercial species of fish and shellfish. Although this work was interrupted by resignation of personnel, it is now completed and detailed data on the calcium, phosphorus, magnesium, iron, copper, and iodine content of the edible portion of various species of fish and shellfish have been published in Investigational Report No. 41, entitled "The Mineral Content of the Edible Portions of Some American Fishery Products." Fish fillets are about equal to the muscle cuts of beef in mineral content, except that the fish greatly exceeds the meat in iodine content. Canned salmon contains about 15 times as much calcium, almost twice as much phosphorus, 20 times as much iodine, and approximately equal quantities of other minerals as beef round. Oysters, shrimp, and crab meat contain approximately half as much calcium, more than five times as much magnesium, and more phosphorus than an equal quantity of milk. In addition, these shellfish are a particularly good source of iron, copper, and iodine.

CHEMICAL COMPOSITION AND NUTRITIVE VALUE OF FISH PROTEINS

This study, begun several years ago, has now been completed. A report of the results of one phase of the project has been published in the scientific journal, Food Research, 1938, Volume 3, No. 5, under the title of "Nutritive Value for Growth of Some Proteins of Fishery Products." By using an arbitrary factor of 100, the proteins of the following fish and shellfish fell into groups according to relative growth-promoting value, as compared to beef at a factor of 63: Oyster 100; pilchard, red snapper, shrimp and Boston mackerel 90; and shad, cod, croaker, and silver salmon 80.

The chemical determinations of the principal amino acids in the proteins of several species of fish and shellfish have also been completed and a report is now being prepared for publication. Arginine, histidine, and lysine were determined in the proteins of 20 species of fish and shellfish as follows: Cod, croaker, haddock, halibut, sea herring, lake trout, Boston mackerel, Spanish mackerel, mullet, pilchard, red snapper, chum salmon, king salmon, silver salmon, shad, squeteague, hard clam, blue crab, oyster, and shrimp. Tryptophane was determined in the proteins of 28 species as follows: Catfish, cod, croaker haddock, halibut, lake herring, sea herring lake trout, Boston mackerel, Spanish mackerel, mullet, pilchard, red snapper, chum salmon, king salmon, pink salmon, silver salmon, sockeye salmon, shad, squeteague, albacore tuna, bluefin tuna, bonito, skipjack, hard clam, blue crab, oyster, and shrimp. Cystine was determined in the proteins of the following 13 species: Cod, croaker, haddock, halibut, Boston mackerel, Spanish mackerel, mullet, red snapper, king salmon, pink salmon, silver salmon, shad, and shrimp.

VITAMIN CONTENT OF FISHERY PRODUCTS

The only work done on this subject in 1938 was a series of assays of the vitamin D content of experimentally prepared fish-liver oils forwarded by our Seattle laboratory, in connection with its byproducts studies, to our nutrition laboratory at College Park. These determinations were used as a method of evaluating various methods of handling and extracting fish livers and are discussed in Investigational Report No. 40, entitled "Pacific Salmon Oils," previously discussed in this report.

SODIUM ALGINATE AS A STABILIZER IN PRODUCTS OF THE DAIRY INDUSTRY

Sodium alginate is a very useful preparation produced from the giant kelp (*Macrocystis pyrifera*) harvested from waters on the Pacific coast. It is used extensively as a stabilizer in such dairy products as chocolate milk, ice cream, etc. The results have been very satisfactory to the dairy industry from the mechanical standpoint, but regulatory authorities have expressed a desire to learn whether sodium alginate has any toxic properties. Accordingly, two commercial samples of sodium alginate were used in feeding tests with experimental animals and were tested in the diet in percentages much higher than would be used as a stabilizer in dairy products. The results of these experiments showed no indications whatsoever of any toxicity of the sodium alginate. The detailed conclusions of this study have been assembled in a report.

KELP MEAL IN ANIMAL FEEDING

This project was inaugurated several years ago by the Dairy Department of the University of Maryland and of the Maryland State Agricultural Experiment Station at College Park, Md., in cooperation with our technologists, to determine whether kelp meal, as a mineral supplement, had value in improving reproduction in dairy cattle. The tests thus far have been conducted with heifers and the preliminary results have been very encouraging. The study is being continued with producing or lactating dairy cows on a more extensive scale and it is hoped that information of considerable interest and benefit to the dairy industry will result from these experiments. Tests of this kind with large farm animals, such as dairy cows, require several years for the production of conclusive results. However, quite definite improvement in the reproductive record of the animals fed kelp meal has resulted thus far.

RESEARCH ASSOCIATES AND STUDENT ASSISTANTS

Because of the relatively small size of the Bureau's technological staff, and the rather broad field of research it must cover, it is only possible to undertake those problems which are of a fundamental nature and which promise to be of the greatest value to the largest number of persons, whose livelihood depends in whole or in part on the fisheries, and which are possible with the funds and personnel available. For this reason the Division cannot, with present facilities, attack problems of special or restricted interest affecting certain products, processes, methods, or industries. However, the Bureau has available, by congressional authorization and under an arrangement similar to that of other scientific Government bureaus, facilities for research associates and student assistants in its laboratories. The salaries and expenses of these employees are paid by the firms or groups who are interested in the problems on which they are working and the investigations are carried out under the supervision of the Bureau's technologists in its laboratories and under its control. Thus the Bureau provides these industries and groups with laboratory, consulting, and library facilities which, in most instances, cannot be obtained elsewhere.

Within the limits of its facilities, the Bureau also has opened its technological laboratories to research students who are pursuing courses in universities and who are selecting investigational problems in the fisheries as their major study. This may prove of special benefit to the industry as it brings its problems to the attention of a large group of research workers who in turn may spread interest to applied fishery research.

In the preceding sections of this report we have given the names of organizations which are conducting cooperative projects under the supervision of our technological staff and which have employed research associates for this purpose. In the preceding section on laboratories, we have given the individual names of these research associates and student assistants. The plan of utilizing graduate student assistants for working part-time on research projects has been so successful that the University of Maryland employed from its own funds additional graduate students, by establishing two research fellowships for work on fishery technological research. Some of these new research problems assigned to these research fellows at the beginning of the school year in October 1938, are: (1) Studies on the enzymes in fresh and frozen fish; (2) chemical and pharmacological studies on the oxidized oils in fish meals; (3) chemical and pharmacological studies on the decomposition of protein in fish meals; and (4) studies of certain bacterial enzymes responsible for certain types of fish spoilage. These projects are selected by the student in accordance with his qualifications, approved by both the Bureau and the University, and the results are prepared in a thesis submitted for a master's or a doctor's degree at the end of 3 years of part-time work. These students usually do excellent work, the results of such studies are usually of value to the industry, and this plan serves to educate and train scientific fishery investigators.

EDUCATIONAL AND CONSULTING SERVICE

In addition to the research activities described in this report, our economic and technological staffs conduct, along with their regular duties, an educational and consulting service for those interested in the fisheries. During the past year the demand for this type of service has increased. Many requests have been received from groups and individuals to demonstrate improved methods developed in our laboratories for the handling and processing of fishery products, for instruction in fish cookery, and for aid in improving various marketing practices. Insofar as our facilities have permitted, we have complied with these requests, endeavoring to offer assistance especially where the request has come from a large group or industry. However, we have not been able to comply with all of the requests received because of insufficient personnel and because of inadequate funds to provide for the travel expenses of the demonstrators.

Some of the educational services rendered are discussed or referred to in previous paragraphs of this report. In brief, this work has covered the fields of commercial preserving of fishery products, fish cookery in the home, and the marketing of aquatic products.

Another phase of this service has consisted of answering thousands of letters directed to the Bureau on fishery subjects and of supplying information to persons who have called at the Bureau personally. Many of the latter came from foreign lands to seek fishery information which might be useful in the conduct of the industry in their native country.

PUBLICATIONS OF THE DIVISION

During the calendar year 1938 the following publications were prepared and addresses delivered by members of the Division's staff. These do not include the monthly statistical bulletins of the landings of fishery products at Boston and Gloucester, Mass., Portland, Maine, and Seattle, Wash., nor the monthly reports on cold-storage holdings of frozen fish and quantities of fish frozen. The fishery reports and circulars may be purchased, at the prices shown, from the Superintendent of Documents, Government Printing Office, Washington, D. C. The statistical bulletins and special or S–memoranda are distributed free of charge upon request to the Bureau. The special articles may be obtained from the sources of publication.

Those wishing to receive copies of this report and statistical bulletins as issued should request that their names be placed on the Bureau's mailing lists, Nos. 128 for the annual statistical report; 128a for general statistical bulletins; 128b for monthly cold-storage reports; and 128d for periodic fishery market news reports. Those desiring daily fishery market news reports from any one of the Division's Fishery Market News offices which have been established should apply direct to the Bureau of Fisheries, Division of Fishery Industries, Fishery Market News Service at the nearest of the following five addresses: 33A Fulton Street, New York, N. Y.; 253½ Northern Avenue, Boston, Mass.; 200 North Jefferson Street, Chicago, Ill.; 309 Duval Building, Jacksonville, Fla.; or 421 Bell Street Terminal, Seattle, Wash. For historical statistical data on the domestic fisheries for the period 1880 to 1929 consult the report entitled "Fishery Industries of the United States, 1930," by R. H. Fiedler, appendix II to the report of the United States Commissioner of Fisheries for the fiscal year 1931. Statistical information for the years 1930 to 1936, inclusive, may be obtained from the annual reports of the Division for the years 1931 to 1937, inclusive.

DOCUMENTS, REPORTS, AND CIRCULARS

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Trade in fresh and frozen fishery products and related marketing considerations in the San Francisco Bay area. 8°, 51 pp. Investigational Report No. 39. 10 cents.

Fiedler, R. H.
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Johnson, Fred F.
Marketing of shad on the Atlantic coast. 8°, 44 pp. Investigational Report No. 38. 10 cents.

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Fishing industry—chart your course. Bureau of Fisheries' Memorandum S-347, Washington, D. C., also published in Pacific Coast News, Vancouver, B. C., in issue of December 15, 1938, as "Dry" statistics tell history of fishing industry.
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Harrison, Roger W.
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Lanham, William B. Jr., and James M. Lemon
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- Technological research in the oyster industry. Address before the Oyster Institute of North America, June 6, 1938. Providence, R. I.
- The relation of technological research to the fisheries. Address before seminar of graduate students in bacteriology, University of Maryland, October 6, 1938. College Park, Md.
- Selection and handling frozen fish for the hotel and restaurant trade. Address before the Southeastern Section of the Hotel and Restaurant Managers Association at the Mayflower Hotel, December 7, 1938. Washington, D. C.
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- Simple electrode support for electrometric titrations. Industrial and Engineering Chemistry, Analytical Edition, vol. 10, No. 9, p. 529, September 15, 1938. Easton, Pa.

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Part 2. FISHERY STATISTICS, 1937

GENERAL REVIEW

Available statistics indicate that there was a decrease in the volume but an increase in the value of fishery products taken in the United States and Alaska during 1937, as compared with the preceding year. Data on the catch were collected for both 1936 and 1937 in the Chesapeake, South Atlantic and Gulf, Pacific, and Lake States, and in Alaska. The combined catch in these sections alone shows a decrease of 13 percent in volume but an increase of 7 percent in value. Decreased catches were made in each of the five geographical sections; however, the principal reductions occurred in the Pacific Coast States where greatly reduced catches of pilchards were taken, and in Alaska where there was a large decline in the catch of salmon. The value of the production of canned fishery products in all sections increased 11 percent as compared with 1936; byproducts increased 5 percent; frozen fish about 1 percent; and packaged fish 3 percent.

The total catch of fishery products in the United States and Alaska, as based on the most recent surveys, amounted to 4,352,549,000 pounds, valued at $100,845,000. About 130,000 fishermen were employed in making this catch.

The production of canned fishery products in the United States and Alaska during 1937 amounted to 742,197,065 pounds, valued at $105,174,935; the output of byproducts was valued at $36,804,045; the production of frozen fishery products, excluding packaged products, amounted to 103,111,549 pounds, estimated to be valued at $8,800,000; and fresh and frozen packaged fish and shellfish, 201,802,529 pounds, valued at $27,677,899. Based on surveys for 1937 in all sections except the Mississippi River area, and for 1931 in that area, the production of cured fishery products amounted to 104,339,340 pounds, valued at $15,635,280. It is estimated that about 686,000,000 pounds of fresh fishery products (excluding packaged fish and shellfish) valued at about $57,000,000, were marketed during 1937. The total marketed value to domestic primary handlers of all fishery products in 1937 is estimated at $251,000,000.

Fishery products imported for consumption were valued at $50,635,515 and domestic exports were valued at $14,567,252.

New England States.—In 1937 the commercial catch of fishery products in these States showed an increase in both volume and value as compared with 1935, when the first preceding survey of the total catch of these States was made. The yield of the fisheries in this section during 1937 was the largest that has been recorded, with the exception of the catch for the years of 1929 and 1930.

A comparison of the combined vessel landings at Boston and Gloucester, Mass., and Portland, Maine, which are available for both 1936 and 1937, show that those landings declined in 1937.

Middle Atlantic States.—The 1937 commercial catch of fishery products in the Middle Atlantic States decreased in volume but increased in value as compared with 1935, when the first preceding survey of the total catch was made. Available data for both 1936 and 1937 show that the production of frozen fish in these States declined in 1937, while the catch of shad in the Hudson River was the largest on record since 1901.

Chesapeake Bay States.—In 1936 the catch of fishery products in the Chesapeake Bay States decreased in both volume and value, as compared with the previous year. The value of menhaden products, which were produced in Virginia, declined during the year, while both the quantity and value of fresh-shucked oysters, and packaged fresh-cooked crab meat increased.

South Atlantic and Gulf States.—The catch of fishery products in the South Atlantic and Gulf States during 1937 declined in volume but increased in value, as compared with the previous year. There was a large increase in the value of manufactured fishery products produced in these States in 1937 due to material increases in the production of packaged fresh-cooked crab meat, fresh-shucked oysters, and canned shrimp and oysters.

Pacific Coast States.—The commercial catch of fishery products in these States during 1937 decreased in volume, but increased in value. The decrease in volume resulted principally from reduced catches of pilchards in California. The 1937 production of canned sardines, salmon, and tuna increased as compared with 1936, while the packs of mackerel and oysters decreased. The value of fishery byproducts, which consist largely of fish meal and oil also declined.

Lake States.—In 1937 the commercial catch of fishery products in the Lake States decreased in both volume and value, as compared with 1936. The decreases resulted principally from reduced catches of blue pike.

Mississippi River and tributaries.—The most recent complete statistics of the catch of the Mississippi River and tributaries are those collected for 1931. As compared with 1922, when the most recent preceding survey was made, there was a decrease in the catch. This decrease was reflected principally in a smaller catch of fresh-water mussels. A survey made for Lakes Pepin and Keokuk, and the Mississippi River between these two lakes, for 1937 showed a decrease in the catch of fishery products in Lake Pepin and the Mississippi River between these lakes, but an increase in the catch in Lake Keokuk as compared with the previous year. The production of fresh-water mussel-shell buttons declined in 1937 as compared with 1936.

Alaska.—The catch of fishery products in Alaska in 1937 decreased in volume but increased in value, as compared with 1936. There was a material decline in the yield of salmon for the year, while the catches of herring and crabs increased. The production of frozen fishery products and byproducts increased in quantity and value in 1937, while the output of fresh, cured, and canned products decreased.

Fisheries of the United States and Alaska, 1937 [1]

SUMMARY OF CATCH: BY SECTIONS

[Expressed in thousands of pounds and thousands of dollars; that is, 000 omitted]

Product	New England area XXII		Middle Atlantic area XXIII		Chesapeake area XXIII		South Atlantic and Gulf areas XXIV and XXV		Pacific	
	Quantity	*Value*	*Quantity*	*Value*	*Quantity*	*Value*	*Quantity*	*Value*	*Quantity*	*Value*
Fish	615, 167	13, 524	230, 194	3, 700	209, 484	2, 376	343, 669	5, 648	1, 553, 757	26, 723
Shellfish, etc	55, 697	6, 413	34, 458	4, 196	82, 761	3, 985	203, 082	8, 578	21, 982	2, 013
Whale products									1, 138	41
Total	670, 864	19, 937	264, 652	7, 896	292, 245	6, 361	546, 751	14, 226	1, 576, 877	28, 777

Product	Lakes		Mississippi River and tributaries		Alaska		Total	
	Quantity	*Value*	*Quantity*	*Value*	*Quantity*	*Value*	*Quantity*	*Value*
Fish	83, 105	6, 006	44, 062	2, 258	822, 724	14, 019	3, 902, 162	74, 254
Shellfish, etc	853	27	38, 321	640	3, 059	219	440, 213	26, 071
Whale products					9, 036	479	10, 174	520
Total	83, 958	6, 033	82, 383	2, 898	834, 819	14, 717	4, 352, 549	100, 845

NOTE.—The roman numerals appearing under the names of the sections are the numbers given these areas by the North American Council on Fishery Investigations. It should be explained that there are included under these areas craft whose principal fishing ports are in the respective areas but at times they may fish elsewhere.

OPERATING UNITS: BY SECTIONS

Item	New England	Middle Atlantic	Chesapeake	South Atlantic and Gulf	Pacific
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	5, 345	2, 627	2, 486	4, 322	9, 099
On boats and shore	14, 279	5, 093	14, 043	25, 922	12, 456
Total	19, 624	7, 720	16, 529	30, 244	21, 555
Vessels:					
Steam	39	10	25		4
Net tonnage	5, 977	1, 212	2, 833		96
Motor	630	438	171	1, 026	1, 213
Net tonnage	18, 330	7, 324	2, 671	12, 013	37, 050
Sail		3	151	69	5
Net tonnage		32	1, 886	645	2, 198
Total vessels	669	451	347	1, 095	1, 222
Total net tonnage	24, 307	8, 568	7, 390	12, 658	39, 344
Boats:					
Motor	4, 469	1, 504	6, 109	7, 913	5, 157
Other	4, 732	2, 261	4, 692	9, 281	811
Accessory boats	712	223	105	216	853
Apparatus:					
Haul seines	98	239	271	1, 186	227
Purse seines	103	44	36	48	598
Lampara nets					233
Otter trawls	509	213	19	4, 201	54
Beam trawls					25
Paranzella nets					14
Gill nets	6, 608	1, 936	9, 842	12, 257	3, 789
Trammel and bar nets				954	31
Pound nets, trap nets, and weirs	466	435	2, 388	3, 104	33
Stop nets	78	70	2		
Fyke nets	247	1, 638	2, 596	1, 083	1, 989
Bag nets	155				9
Other nets [2]	617	200	2, 303	10, 060	532
Hooks, baits, or snoods	2, 485, 280	687, 489	2, 032, 491	1, 538, 766	1, 099, 859
Fish wheels				10	
Eel pots and traps	3, 083	3, 364	11, 273	1, 502	
Brush traps				28, 300	
Lobster pots and traps	306, 130	23, 664			5, 721

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[1] All figures are for 1937, except those for the Mississippi River and tributaries, which are for 1931.

[2] Includes dip, push, reef, scap, drag, cast, and drop nets.

Fisheries of the United States and Alaska, 1937—Continued

OPERATING UNITS: BY SECTIONS—Continued

Item	New England	Middle Atlantic	Chesapeake	South Atlantic and Gulf	Pacific
Apparatus—Continued.					
Crab, crawfish, and turtle pots, and traps	*Number* 3, 660	*Number* 10	*Number* 1, 060	*Number* 9, 381	*Number* 29, 162
Clam dredges	112	124		1	
Crab dredges		73	198		
Mussel dredges	4	2			
Oyster dredges	150	291	459	897	4
Scallop dredges	3, 696	78	2	37	
Crab scrapes			746		
Tongs, rakes, shovels, hoes, forks, picks, etc	6, 485	3, 947	8, 478	3, 563	4, 266
Diving outfits				72	24
Other apparatus [5]	1, 231	11, 291	235	6, 779	416

Item	Lakes	Mississippi River and tributaries	Alaska	Total
Fishermen:	*Number*	*Number*	*Number*	*Number*
On vessels	1, 662		[2] 11, 570	37, 111
On boats and shore	4, 756	15, 884		92, 433
Total	6, 418	15, 884	11, 570	129, 544
Vessels:				
Steam	49		6	133
Net tonnage	1, 146		488	11, 752
Motor	433		866	4, 777
Net tonnage	5, 200		11, 847	94, 435
Sail				228
Net tonnage				4, 761
Total vessels	482		872	5, 138
Total net tonnage	6, 346		12, 335	110, 948
Boats:				
Motor	1, 637	4, 426	1, 692	32, 907
Other	1, 408	10, 120	3, 494	36, 799
Accessory boats	9			2, 118
Apparatus:				
Haul seines	259	1, 013	209	3, 502
Purse seines			862	1, 691
Lampara nets				233
Otter trawls				4, 996
Beam trawls			13	38
Paranzella nets				14
Gill nets	162, 829	101	4, 121	201, 483
Trammel and bar nets	115	518		1, 618
Pound nets, trap nets, and weirs	10, 252	374	457	17, 509
Stop nets				150
Fyke nets	2, 800	32, 541		42, 894
Bag nets				164
Other nets [3]		191		13, 903
Hooks, baits, or snoods	1, 222, 970	2, 459, 179	(4)	11, 526, 034
Fish wheels			255	265
Eel pots and traps				19, 222
Brush traps				28, 300
Lobster pots and traps				335, 515
Crab, crawfish, and turtle pots, and traps	850	456	3, 479	48, 058
Clam dredges				237
Crab dredges				271
Mussel dredges		440		446
Oyster dredges				1, 801
Scallop dredges				3, 813
Crab scrapes				746
Tongs, rakes, shovels, hoes, forks, picks, etc	37	3, 994		30, 770
Diving outfits				96
Crowfoot bars	158	4, 480		4, 638
Other apparatus [5]		3, 781		23, 733

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[2] Includes persons in boats and shore fisheries.

[4] Number not determined.

[5] Includes periwinkle, cockle, and fish pots; harpoons, spears, hooks, coquina scoops, octopus and slat traps, and wire baskets.

NOTE.—The South Atlantic and Gulf section includes the fisheries of Lake Okeechobee, Fla.

Fisheries of the United States and Alaska, 1937—Continued

CATCH: BY SECTIONS

[Expressed in thousands of pounds and thousands of dollars; that is 000 omitted]

Species	New England		Middle Atlantic		Chesapeake		South Atlantic and Gulf		Pacific	
FISH	*Quantity*	*Value*	*Quantity*	*Value*	*Quantity*	*Value*	*Quantity*	*Value*	*Quantity*	*Value*
Alewives	4, 207	22	715	10	18, 883	188	6, 218	60		
Amberjack							51	1		
Anchovies	32	(6)							226	4
Angelfish							9	(6)		
Barracuda									2, 933	161
Black bass					41	5				
Bluefish	221	19	2, 348	170	609	30	5, 294	258		
Blue runner or hardtail							784	9		
Bonito	48	4	224	10	35	1	1	(6)		
Bowfin							3	(6)		
Buffalofish							716	37		
Butterfish	2, 870	110	4, 956	229	2, 048	33	13	(6)		
Cabio or crab eater					20	1	2	(6)		
Cabrilla									131	7
Carp	41	3	508	36	633	22	324	7	163	5
Catfish and bullheads	(6)	(6)	115	6	1, 107	36	7, 067	334	303	34
Cero			51	1			(6)	(6)		
Cigarfish							17	(6)		
Cod	134, 605	2, 657	6, 415	223	1	(6)			12, 637	195
Crappie					3	(6)	524	18		
Crevalle	2	(6)					196	4		
Croaker	866	28	4, 236	71	34, 095	516	10, 286	127		
Cunner	43	1								
Cusk	10, 172	186	91	1						
Dolphin							3	(6)		
Drum:										
Black			5	(6)	47	1	1, 894	49		
Red or redfish	3	(6)	10	(6)	46	1	3, 221	164		
Eels:										
Common	404	35	478	41	317	28	104	3		
Conger	63	1	32	1	1	(6)				
Flounders	48, 202	1, 830	10, 876	604	530	28	997	64	16, 285	749
Flyingfish									42	2
Frigate mackerel			185	2						
Garfish							6	(6)		
Gizzard shad			1	(6)	351	5	38	(6)		
Goosefish	37	(6)								
Grayfish	32	1	58	1	5	(6)			2, 533	29
Groupers			22	1			5, 546	175	58	3
Grunts							59	1		
Haddock	169, 487	4, 172	2, 282	76						
Hake	25, 109	363	367	6	3	(6)			63	1
Halibut	2, 439	257	3	(6)					24, 418	2, 176
Hardheads									54	5
Harvestfish or "starfish"					1, 093	20	641	10		
Herring, sea	53, 042	297	371	4					1, 792	17
Herring smelt	10	(6)								
Hickory shad	13	(6)	2	(6)	113	2	230	7		
Hogchoker					18	(6)				
Hogfish					1	(6)	21	(6)		
Horse mackerel									6, 542	65
Jewfish							85	3		
Kingfish (California)									646	16
Kingfish or "king mackerel"			149	6			3, 359	124		
King whiting or "kingfish"	15	1	150	4	143	4	1, 726	40		
Lamprey	3	(6)								
Launce	268	3								
"Lingcod"									2, 731	101
Mackerel	23, 381	959	3, 117	95	103	2			60, 936	669
Marlin									4	(6)
Menhaden	294	2	148, 505	657	121, 980	485	211, 358	616		
Minnows	2	1								
Mojarra							349	7		
Moonfish							5	(6)		
Mullet			65	3	14	(6)	36, 210	1, 197	9	1
Mummichog	1	(6)	1	(6)						
Muttonfish							233	14		
Paddlefish or spoonbill cat							71	4		
Permit							12	(6)		
Pigfish			(6)	(6)			117	2		
Pike or pickerel					40	6	(6)	(6)		
Pilchard									1, 139, 505	6, 815

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[6] Less than 500 pounds or dollars.

Fisheries of the United States and Alaska, 1937—Continued

CATCH: BY SECTIONS—Continued

[Expressed in thousands of pounds and thousands of dollars; that is 000 omitted]

Species	New England		Middle Atlantic		Chesapeake		South Atlantic and Gulf		Pacific	
FISH—continued	*Quantity*	*Value*	*Quantity*	*Value*	*Quantity*	*Value*	*Quantity*	*Value*	*Quantity*	*Value*
Pinfish							70	1		
Pollock	37, 566	524	118	3						
Pompano			(6)	(6)	11	1	700	139	5	2
Rock bass									324	18
Rockfishes									4, 889	214
Rosefish	58, 356	887	1	(6)						
Rudderfish			2	(6)					36	2
Sablefish									3, 949	192
Salmon:										
Atlantic	29	6								
Blueback, red or sockeye									7, 042	737
Chinook or king									35, 592	2, 867
Chum or keta									11, 435	294
Humpback or pink									25, 425	637
Silver or coho									16, 167	891
Sculpin									146	11
Scup or porgy	10, 062	214	6, 752	135	1, 958	31	50	2		
Sea bass	2, 553	141	2, 639	154	213	10	394	21	714	40
Sea bass, white (California)									602	57
Sea catfish							272	7		
Sea robin	181	2	71	1	3	(6)				
Shad	445	27	4, 394	406	3, 491	313	1, 317	192	1, 214	46
Sharks	127	3	66	2	6	(6)	2, 557	14		
Sheepshead:										
Fresh-water							604	17		
Salt-water					(6)	(6)	1, 148	37	82	3
Silversides	(6)	(6)								
Skates	399	3	121	1	16	(6)	3	(6)	448	9
Skipper or "billfish"	1	(6)								
Smelt	639	71	1	(6)					2, 085	122
Snapper:										
Mangrove							195	7		
Red			54	4	(6)	(6)	7, 522	516		
Snook or sergeantfish							533	21		
Spadefish							51	1		
Spanish mackerel			51	4	839	21	6, 433	292	27	1
Splittail									11	(6)
Spot	2	(6)	18	(6)	3, 006	56	5, 866	105		
Squawfish									1	(6)
Squeteagues or "sea trout":										
Gray	201	12	12, 264	358	13, 697	268	7, 531	214		
Spotted					148	7	7, 616	578		
White							493	20		
Squirrel hake	4	(6)	120	1						
Steelhead trout									2, 065	122
Striped bass	450	36	405	47	3, 016	220	713	70	34	1
Sturgeon	10	1	8	1	13	2	69	7	154	5
Suckers	139	5	70	4	3	(6)	3	(6)	8	(6)
Sunfish			2	(6)	1	(6)	981	29		
Surffishes (perch)									336	14
Swellfish			56	1	9	(6)				
Swordfish	1, 868	291	109	20					625	85
Tautog	204	9	21	(6)	1	(6)				
Tenpounder							455	8		
Thimble-eyed mackerel	5	(6)	63	2						
Tilefish	36	1	2, 390	102						
Tomcod	8	(6)	3	(6)	(6)	(6)			1	(6)
Tripletail							25	(6)		
Tuna and tunalike fishes:										
Albacore									3, 520	287
Bluefin	929	32	94	4	(6)	(6)			12, 694	725
Bonito									7, 808	286
Skipjack									47, 104	2, 319
Yellowfin									91, 522	5, 458
Turbot	(6)	(6)								
Whitebait									86	5
Whitefish, common									57	3
White perch	3	(6)	102	10	492	18	162	7		
Whiting	22, 480	258	13, 813	179	17	(6)				
Wolffish	2, 558	49	6	(6)						

[6] Less than 500 pounds or dollars.

Fisheries of the United States and Alaska, 1937—Continued

CATCH: BY SECTIONS—Continued

[Expressed in thousands of pounds and thousands of dollars; that is 000 omitted]

Species	New England		Middle Atlantic		Chesapeake		South Atlantic and Gulf		Pacific	
FISH—continued	*Quantity*	*Value*	*Quantity*	*Value*	*Quantity*	*Value*	*Quantity*	*Value*	*Quantity*	*Value*
Yellow perch	(6)	(6)	41	3	264	15	7	(6)		
Yellowtail			1	(6)			109	8	5,371	212
Miscellaneous									167	3
Total	615,167	13,524	230,194	3,700	209,484	2,376	343,669	5,648	1,553,757	26,723
SHELLFISH, ETC.										
Crabs:										
Hard	2,514	68	1,411	38	44,126	958	29,086	434	8,356	721
King or "horseshoe"			3,256	8						
Rock	2	(6)								
Soft and peelers	1	(6)	150	38	4,989	436	483	75		
Stone							46	9		
Crawfish									85	9
Lobsters:										
Common	10,936	2,304	640	133						
Spiny							293	22	1,322	163
Shrimp	7	1	116	16	2	(6)	141,273	5,009	1,158	24
Abalone									573	93
Clams:										
Coquina							4	(6)		
Hard	3,809	442	5,078	877	1,695	282	1,186	84	979	70
Pismo									56	11
Razor	726	19							480	94
Soft	14,677	934	1,960	156					30	8
Surf	9	1	1,586	79						
Mixed									78	7
Conchs	19	1	13	1			7	1		
Mussels, sea	16	1	93	5	28	1			(6)	(6)
Octopus									88	4
Oysters, market:										
Eastern, public	187	29	896	141	22,549	1,543	19,472	978		
Eastern, private	11,229	1,521	13,721	2,229	9,167	758	10,166	717	68	23
Japanese									7,891	562
Western									281	202
Periwinkles and "cockles"	72	2								
Scallops:										
Bay	1,552	304	36	9			181	21	24	5
Sea	5,659	629	3,053	343	11	2				
Squid	3,295	42	2,353	67	185	3			503	16
Sea urchins	82	(6)								
Terrapin			1	(6)	3	2	29	3		
Turtles			22	1	6	(6)	225	5		
Irish moss	182	16								
Kelp	120	1								
Sponges							631	1,220		
Bloodworms	264	42	35	27						
Sandworms	327	55	38	28						
Starfish	12	1								
Trepang									10	1
Total	55,697	6,413	34,458	4,196	82,761	3,985	203,082	8,578	21,982	2,013
WHALE PRODUCTS[7]										
Meat									625	12
Oil, whale									513	29
Total									1,138	41
Grand total	670,864	19,937	264,652	7,896	292,245	6,361	546,751	14,226	1,576,877	28,777

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[6] Less than 500 pounds or dollars.

[7] The weight of whales caught was not determined; therefore, the weight of manufactured products is shown. This tabulation does not include data on the whale fishery, conducted by United States enterprise in the Southern Hemisphere. For data on this fishery, the reader is referred to the following sections of this report: "Manufactured Fishery Products," "Canned Fishery Products and Byproducts Trade," the manufactured products table in the section entitled "Middle Atlantic States," and to the section entitled "Whaling."

Fisheries of the United States and Alaska, 1937—Continued

CATCH: BY SECTIONS—Continued

[Expressed in thousands of pounds and thousands dollars; that is 000 omitted]

Species	Lakes		Mississippi River and tributaries		Alaska		Total	
FISH	*Quantity*	*Value*	*Quantity*	*Value*	*Quantity*	*Value*	*Quantity*	*Value*
Alewives							30, 023	280
Amberjack							51	1
Anchovies							258	4
Angelfish							9	(6)
Barracuda							2, 933	161
Black bass			14	2			55	7
Bluefish							8, 472	477
Blue pike	11, 021	646					11, 021	646
Blue runner or hardtail							784	9
Bonito							308	15
Bowfin	1	(6)	428	9			432	9
Buffalofish			15, 772	687			16, 488	724
Burbot	494	7					494	7
Butterfish							9, 887	372
Cabio or crab eater							22	1
Cabrilla							131	7
Carp	5, 160	136	11, 892	456			18, 721	665
Catfish and bullheads	1, 120	70	10, 267	878			19, 979	1, 358
Cero							51	1
Chub	6, 044	903					6, 044	903
Cigarfish							17	(6)
Cisco	64	7					64	7
Cod					624	4	154, 282	3, 079
Crappie	(6)	(6)	41	3			568	21
Crevalle							198	4
Croaker							49, 483	742
Cunner							43	1
Cusk							10, 263	187
Dolly Varden trout					55	3	55	3
Dolphin							3	(6)
Drum:								
Black							1, 946	50
Red or redfish							3, 280	165
Eels:								
Common	10	(6)	7	1			1, 320	108
Conger							96	2
Flounders					200	4	77, 090	3, 279
Flyingfish							42	2
Frigate mackerel							185	2
Garfish	6	(6)	73	1			85	1
Gizzard shad							390	5
Goldfish	267	5					267	5
Goosefish							37	(6)
Grayfish							2, 628	31
Groupers							5, 626	179
Grunts							59	1
Haddock							171, 769	4, 248
Hake							25, 542	370
Halibut					18, 974	1, 005	45, 834	34, 438
Hardheads							54	5
Harvestfish or "starfish"							1, 734	30
Herring:								
Lake	21, 557	621					21, 557	621
Sea					206, 446	1, 032	261, 651	1, 350
Herring smelt							10	(6)
Hickory shad							358	9
Hogchoker							18	(6)
Hogfish							22	(6)
Horse mackerel							6, 542	65
Jewfish							85	3
Kingfish (California)							646	16
Kingfish or "king mackerel"							3, 508	130
King whiting or "kingfish"							2, 034	49
Lake trout	9, 428	1, 521					9, 428	1, 521
Lamprey							3	(6)
Launce							268	3
"Lingcod"					3	1	2, 734	102
Mackerel							87, 537	1, 725
Marlin							4	(6)
Menhaden							482, 137	1, 760
Minnows			1	(6)			3	1
Mojarra							349	7
Mooneye	15	(6)	3	(6)			18	(6)
Moonfish							5	(6)

[6] Less than 500 pounds or dollars

Fisheries of the United States and Alaska, 1937—Continued

CATCH: BY SECTIONS—Continued

[Expressed in thousands of pounds and thousands of dollars; that is 000 omitted]

Species	Lakes		Mississippi River and tributaries		Alaska		Total	
	Quantity	*Value*	*Quantity*	*Value*	*Quantity*	*Value*	*Quantity*	*Value*
FISH—continued								
Mullet							36, 298	1, 201
Mummichog							2	(6)
Muttonfish							233	14
Paddlefish or spoonbill cat			951	43			1, 022	47
Permit							12	(6)
Pigfish							117	2
Pike or pickerel	259	12	5	1			304	19
Pilchard							1, 139, 505	6, 815
Pinfish							70	1
Pollock							37, 684	527
Pompano							716	142
Quillback			268	11			268	11
Rock bass	37	1					361	19
Rockfishes					26	(6)	4, 915	214
Rosefish							58, 357	887
Rudderfish							38	2
Sablefish					2, 990	91	6, 939	283
Salmon:								
Atlantic							29	6
Blueback, red, or sockeye					193, 459	5, 458	200, 501	6, 195
Chinook or king					21, 435	549	57, 027	3, 416
Chum or keta					80, 465	895	91, 900	1, 189
Humpback or pink					282, 284	4, 616	307, 709	5, 253
Silver or coho					15, 741	359	31, 908	1, 250
Sauger	1, 636	88	2	(6)			1, 638	88
Sculpin							146	11
Scup or porgy							18, 822	382
Sea bass							6, 513	366
Sea bass, white (California)							602	57
Sea catfish							272	7
Sea robin							255	3
Shad							10, 861	984
Sharks							2, 756	19
Sheepshead:								
Fresh-water	4, 069	65	3, 905	143			8, 578	225
Salt-water							1, 230	40
Silversides							(6)	(6)
Skates							987	13
Skipper or "billfish"							1	(6)
Smelt	1, 426	67			(6)	(6)	4, 151	260
Snapper:								
Mangrove							195	7
Red							7, 576	520
Snook or sergeantfish							533	21
Spadefish							51	1
Spanish mackerel							7, 350	318
Splittail							11	(6)
Spot							8, 892	161
Squawfish							1	(6)
Squeteagues or "sea trout":								
Gray							33, 693	852
Spotted							7, 764	585
White							493	20
Squirrel hake							124	1
Steelhead trout					22	2	2, 087	124
Striped bass							4, 618	374
Sturgeon	18	6					272	22
Sturgeon, shovelnose			87	8			87	8
Suckers	5, 892	161	315	13			6, 430	183
Sunfish	32	1	22	1			1, 038	31
Surffishes (perch)							336	14
Swellfish							65	1
Swordfish							2, 602	396
Tautog							226	9
Tenpounder							455	8
Thimble-eyed mackerel							68	2
Tilefish							2, 426	103
Tomcod							12	(6)
Tripletail							25	(6)
Tullibees	223	5					223	5
Tuna and tunalike fishes:								
Albacore							3, 520	287
Bluefin							13, 717	761
Bonito							7, 808	286

[6] Less than 500 pounds or dollars.

Fisheries of the United States and Alaska, 1937—Continued

CATCH: BY SECTIONS—Continued

[Expressed in thousands of pounds and thousands of dollars: that is 000 omitted]

Species	Lakes		Mississippi River and tributaries		Alaska		Total	
	Quantity	*Value*	*Quantity*	*Value*	*Quantity*	*Value*	*Quantity*	*Value*
FISH—continued								
Tuna and tunalike fishes—Con.								
Skipjack							47,104	2,319
Yellowfin							91,522	5.458
Turbot							(6)	(6)
White bass	435	20	4	(6)			439	20
Whitebait							86	5
Whitefish:								
Common	3.228	668					3,285	671
Menominee	138	13					138	13
White perch							759	35
Whiting							36,310	437
Wolffish							2.564	49
Yellow perch	5,067	433					5.379	451
Yellow pike	5.458	550	5	1			5,463	551
Yellowtail							5.481	220
Miscellaneous							167	3
Total	83,105	6,006	44,062	2.258	822,724	14,109	3.902,162	74,254
SHELLFISH, ETC								
Crabs:								
Hard					1,393	138	86,886	2.357
King (Pacific coast)					6	(6)	6	(6)
King or "horseshoe"							3,256	8
Rock							2	(6)
Soft and peelers							5,623	549
Stone							46	9
Crawfish	6	1	29	(6)			120	10
Lobsters:								
Common							11,576	2,437
Spiny							1,615	185
Shrimp			49	4	843	33	143,448	5,087
Abalone							573	93
Clams:								
Coquina							4	(6)
Hard					13	1	12,760	1,756
Pismo							56	11
Razor					804	47	2,010	160
Soft							16,667	1,098
Surf							1,595	80
Mixed							78	7
Conchs							39	3
Mussels, sea							137	7
Mussel shells	847	26	37,254	421			38,101	447
Octopus							88	4
Oysters, market:								
Eastern, public							43,104	2,691
Eastern, private							44,351	5,248
Japanese							7,891	562
Western							281	202
Periwinkles and "cockles"							72	2
Scallops:								
Bay							1,793	339
Sea							8,723	974
Squid							6,336	128
Sea urchins							82	(6)
Terrapin			19	(6)			52	5
Turtles			95	4			348	10
Frogs			875	131			875	131
Irish moss							182	16
Kelp							120	1
Sponges							631	1,220
Pearls and slugs		(6)		80				80
Bloodworms							299	69
Sandworms							365	83
Starfish							12	1
Trepang							10	1
Total	853	27	38,321	640	3,059	219	440,213	26,071

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[6] Less than 500 pounds or dollars.

Fisheries of the United States and Alaska, 1937—Continued

CATCH: By sections—Continued

[Expressed in thousands of pounds and thousands of dollars; that is 000 omitted]

Species	Lakes		Mississippi River and tributaries		Alaska		Total	
	Quantity	*Value*	*Quantity*	*Value*	*Quantity*	*Value*	*Quantity*	*Value*
WHALE PRODUCTS [7]								
Meat							625	12
Fertilizer					2, 410	33	2, 410	33
Oil, sperm					1, 262	46	1, 262	46
Oil, whale					5, 364	400	5, 877	429
Total					9, 036	479	10, 174	520
Grand total	83, 958	6, 033	82, 383	2, 898	834, 819	14, 717	4, 352, 549	100, 845

CATCH: By States

[Expressed in thousands of pounds and thousands of dollars; that is 000 omitted]

States	Marine and coastal rivers		Mississippi River and tributaries		Lakes [8]		Total	
	Quantity	*Value*	*Quantity*	*Value*	*Quantity*	*Value*	*Quantity*	*Value*
Alabama	10, 917	461	1, 822	33			12, 739	494
Arkansas			15, 733	412			15, 733	412
California	1, 352, 128	18, 945					1, 352, 128	18, 945
Connecticut	16, 063	1, 440					16, 063	1, 440
Delaware	50, 940	319					50, 940	319
Florida	230, 149	4, 983			2, 026	68	232, 175	5, 051
Georgia	22, 443	406					22, 443	406
Illinois			14, 263	367	1, 461	193	15, 724	560
Indiana			7, 717	157	781	84	8, 498	241
Iowa			7, 778	302			7, 778	302
Kansas			455	17			455	17
Kentucky			1, 622	61			1, 622	61
Louisiana	97, 010	3, 601	19, 214	995			116, 224	4 596
Maine	101, 179	2, 806					101, 179	2, 806
Maryland	49 953	2, 532					49, 953	2, 532
Massachusetts	534, 110	14, 198					534, 110	14, 198
Michigan					28, 984	2, 435	28, 984	2, 435
Minnesota			3, 498	138	8, 150	293	11, 648	431
Mississippi	39, 080	1, 731	2, 650	123			41, 730	1, 854
Missouri			928	77			928	77
Nebraska			145	16			145	16
New Hampshire	664	96					664	96
New Jersey	129, 516	3, 201					129, 516	3, 201
New York	84, 161	4, 371			2, 451	187	86, 612	4, 558
North Carolina	112, 755	1, 658					112, 755	1, 658
Ohio			185	7	21, 088	1, 013	21, 273	1, 020
Oklahoma			40	4			40	4
Oregon	68, 945	2, 609					68, 945	2, 609
Pennsylvania	35	5			3, 007	238	3, 042	243
Rhode Island	18, 847	1, 398					18, 847	1, 398
South Carolina	7, 166	268					7, 166	268
South Dakota			114	11			114	11
Tennessee			3, 435	104			3, 435	104
Texas	25, 205	1, 050	139	6			25, 344	1, 056
Virginia	242 292	3, 829					242, 292	3, 829
Washington	155, 805	7, 222					155, 805	7, 222
Wisconsin			2, 645	68	18, 036	1, 590	20, 681	1, 658
Alaska	834, 819	14, 717					834, 819	14, 717
Total	4, 184, 182	91, 846	82, 383	2, 898	85, 984	6, 101	4, 352, 549	100, 845

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[7] The weight of whales caught was not determined; therefore, the weight of manufactured products is shown. This tabulation does not include data on the whale fishery, conducted by United States enterprise in the Southern Hemisphere. For data on this fishery, the reader is referred to the following sections of this report: "Manufactured Fishery Products," "Canned Fishery Products and Byproducts Trade," the manufactured products table in the section entitled "Middle Atlantic States," and to the section entitled "Whaling."

[8] Includes Lake Ontario, Lake Erie, Lake Huron, Lake Michigan, Lake Superior, Rainy Lake, Namakan Lake, Lake of the Woods, Lake Okeechobee, and several mussel-bearing streams tributary to Lakes Huron, Erie, and Michigan.

Fisheries of the United States and Alaska, 1937—Continued

SEED OYSTER FISHERY

Item	New England		Middle Atlantic	
OPERATING UNITS				
Fishermen:	*Number*		*Number*	
On vessels	189		1,226	
On boats and shore:				
Regular	162		192	
Casual	71		159	
Total	422		1,577	
Vessels:				
Steam	3			
Net tonnage	279			
Motor	20		7	
Net tonnage	461		172	
Sail	23		108	
Net tonnage	169		2,460	
Total vessels	46		115	
Total net tonnage	909		2,632	
Boats:				
Motor	3		95	
Other	1		249	
Apparatus:				
Dredges	193		230	
Yards at mouth	172		291	
Tongs	97		346	
Rakes	11		5	
CATCH				
Oysters, seed:	*Bushels*	*Value*	*Bushels*	*Value*
Public, spring	62,945	$47,685	1,184,439	$452,665
Public, fall	43,087	29,856	24,323	16,740
Private, spring	284,800	278,700	5,766	4,996
Private, fall	63,727	60,492	32,161	33,290
Total	454,559	416,733	1,246,689	507,691

Item	Chesapeake		South Atlantic and Gulf		Total	
OPERATING UNITS						
Fishermen:	*Number*		*Number*		*Number*	
On vessels	37				1,452	
On boats and shore:						
Regular	1,051		17		1,422	
Casual	132				362	
Total	1,220		17		3,236	
Vessels:						
Steam					3	
Net tonnage					279	
Motor	13				40	
Net tonnage	69				702	
Sail					131	
Net tonnage					2,629	
Total vessels	13				174	
Total net tonnage	69				3,610	
Boats:						
Motor	433				531	
Other	33		8		401	
Apparatus:						
Dredges			14		437	
Yards at mouth			14		477	
Tongs	910				1,353	
Rakes					16	
CATCH						
Oysters, seed:	*Bushels*	*Value*	*Bushels*	*Value*	*Bushels*	*Value*
Public, spring	249,900	$62,479	8,000	$1,760	1,505,284	$564,589
Public, fall	544,200	136,006			611,610	182,602
Private, spring					290,566	283,696
Private, fall	2,400	600			98,288	94,382
Total	796,500	199,085	8,000	1,760	2,505,748	1,125,269

NOTE.—Of the total number of persons fishing for seed oysters 2,574 are duplicated among those fishing for market oysters or other species. Similarly the following craft and gear are duplicated: 68 vessels, 390 motor boats, 332 other boats, 152 dredges, 951 tongs, and 4 rakes.

Yield of the fisheries of the United States, 1937:[1] *By gear*

Gear	New England		Middle Atlantic		Chesapeake	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Purse seines	14, 775, 000	$584, 818	147, 436, 300	$722, 603	119, 763, 000	$478, 923
Haul seines	1, 127, 000	41, 516	1, 887, 300	117, 419	9, 759, 100	230, 994
Gill nets	23, 197, 900	490, 123	4, 800, 800	351, 330	1, 653, 000	125, 247
Lines	72, 862, 900	1, 783, 735	10, 638, 200	436, 016	38, 996, 500	809, 985
Pound nets	21, 196, 800	408, 294	42, 114, 900	991, 296	70, 577, 000	1, 316, 354
Floating traps	13, 271, 800	266, 195	----------	----------	----------	----------
Other traps	40, 500	3, 708	13, 400	730	11, 200	275
Weirs	21, 528, 100	111, 148	998, 200	2, 170	----------	----------
Stop nets	28, 266, 500	161, 577	196, 300	14, 331	26, 700	560
Fyke nets	135, 200	6, 022	467, 500	30, 035	1, 525, 500	80, 145
Dip nets	4, 359, 300	70, 571	[2] 332, 600	[2] 36, 281	2, 209, 600	194, 692
Cast nets	----------	----------	3, 800	289	----------	----------
Scap nets	7, 900	395	----------	----------	----------	----------
Bag nets	157, 700	16, 700	----------	----------	----------	----------
Drag nets	----------	----------	13, 800	3, 450	----------	----------
Push nets	63, 000	21, 000	20, 300	5, 075	----------	----------
Otter trawls	415, 434, 200	9, 348, 456	26, 563, 300	1, 018, 889	6, 234, 900	146, 539
Pots	13, 718, 800	2, 390, 429	2, 472, 000	234, 353	836, 700	36, 588
Harpoons	2, 070, 400	296, 856	107, 200	19, 857	----------	----------
Spears	26, 500	2, 435	50, 800	3, 955	----------	----------
Scrapes, crab	----------	----------	----------	----------	2, 016, 900	156, 312
Dredges	18, 584, 100	2, 374, 098	18, 793, 300	2, 656, 969	11, 631, 300	713, 515
Tongs	2, 269, 700	329, 597	4, 257, 700	720, 575	24, 245, 600	1, 817, 852
Rakes	1, 324, 600	154, 607	2, 305, 000	335, 342	1, 835, 200	127, 300
Forks	601, 500	71, 734	73, 200	54, 812	----------	----------
Hoes	15, 425, 600	981, 650	1, 177, 700	68, 646	----------	----------
Picks	84, 800	640	----------	----------	277, 000	49, 200
By hand	334, 500	20, 984	928, 300	71, 567	645, 200	76, 753
Total	670, 864, 300	19, 937, 288	264, 651, 900	7, 895, 990	292, 244, 400	6, 361, 234

Gear	South Atlantic and Gulf		Pacific		Lakes	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Purse seines	210, 932, 000	$618, 515	996, 664, 800	$8, 729, 325	----------	----------
Haul seines	38, 761, 800	1, 227, 825	5, 328, 700	323, 462	5, 820, 600	$171, 690
Gill nets	45, 732, 100	1, 787, 321	35, 677, 500	2, 070, 844	40, 779, 300	3, 391, 081
Trammel nets	8, 991, 500	449, 945	1, 099, 700	82, 272	113, 900	1, 953
Lines	50, 952, 900	1, 605, 667	213, 774, 000	12, 103, 395	2, 239, 500	361, 178
Pound nets	12, 650, 100	268, 025	1, 499, 900	80, 915	7, 571, 300	476, 305
Other traps	143, 000	21, 650	9, 903, 500	897, 116	23, 334, 800	1, 397, 352
Weirs	----------	----------	407, 000	4, 343	----------	----------
Wheels	32, 300	377	----------	----------	----------	----------
Fyke nets	985, 500	34, 381	345, 300	36, 652	3, 246, 100	206, 926
Dip nets	2, 164, 300	94, 091	2, 089, 200	162, 072	----------	----------
Cast nets	461, 700	15, 043	----------	----------	----------	----------
Bag nets	----------	----------	694, 900	10, 052	----------	----------
Push nets	[3] 3, 700	[3] 450	----------	----------	----------	----------
Reef nets	----------	----------	1, 409, 500	70, 057	----------	----------
Lampara and ring nets	----------	----------	276, 948, 700	2, 233, 772	----------	----------
Paranzella nets	----------	----------	[4] 12, 913, 000	[4] 617, 448	----------	----------
Otter trawls	139, 596, 800	4, 958, 463	5, 411, 400	140, 224	----------	----------
Beam trawls	----------	----------	509, 900	19, 505	----------	----------
Pots	3, 365, 000	99, 219	----------	----------	6, 400	642
Harpoons	----------	----------	1, 764, 200	126, 242	----------	----------
Spears	303, 200	21, 578	----------	----------	----------	----------
Dredges	17, 836, 000	903, 163	(5)	(5)	----------	----------
Tongs	9, 275, 400	712, 564	9, 863, 600	976, 035	----------	----------
Crowfoot bars	----------	----------	----------	----------	635, 200	18, 727
Rakes	493, 900	46, 148	(5)	(5)	----------	----------
Forks	4, 700	702	----------	----------	----------	----------
Grabs	1, 717, 400	68, 070	----------	----------	----------	----------
Picks	----------	----------	----------	----------	109, 100	3, 862
Hooks	167, 100	265, 584	----------	----------	----------	----------
Diving apparatus, abalone and sponge	471, 700	954, 674	572, 600	92, 654	----------	----------
By hand	1, 708, 900	72, 915	----------	----------	102, 200	3, 368
Total	546, 751, 000	14, 226, 370	1, 576, 877, 400	28, 776, 385	83, 958, 400	6, 033, 084

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[1] Data are for 1937 except that for Mississippi River and tributaries which are for 1931.
[2] Includes the catch by drop nets and wire baskets.
[3] This catch was made by scoop nets.
[4] Includes a small catch by otter trawls.
[5] The catch by shovels, rakes, and dredges is included with tongs.

Yield of the fisheries of the United States, 1937: By gear—Continued

Gear	Mississippi River and tributaries		Total	
	Pounds	*Value*	*Pounds*	*Value*
Purse seines	----------	----------	1, 488, 571, 100	$11, 134, 184
Haul seines	13, 739, 657	$574, 541	76, 424, 157	2, 687, 447
Gill nets	166, 598	6, 547	152, 007, 198	8, 222, 493
Trammel nets	1, 134, 206	75, 615	11, 339, 306	609, 785
Lines	10, 140, 037	772, 245	399, 604, 037	17, 872, 221
Pound nets	224, 275	9, 541	155, 834, 275	3, 550, 730
Floating traps	----------	----------	13, 271, 800	266, 195
Other traps	----------	----------	33, 446, 400	2, 320, 831
Weirs	----------	----------	22, 933, 300	117, 661
Wheels	----------	----------	32, 300	377
Stop nets	----------	----------	28, 489, 500	176, 468
Fyke nets	18, 507, 204	797, 130	25, 212, 304	1, 191, 291
Dip nets	30, 045	3, 307	11, 185, 045	561, 014
Cast nets	----------	----------	465, 500	15, 332
Scap nets	----------	----------	7, 900	395
Bag nets	----------	----------	852, 600	26, 752
Drag nets	----------	----------	13, 800	3, 450
Push nets	----------	----------	87, 000	26, 525
Reef nets	----------	----------	1, 409, 500	70, 057
Lampara and ring nets	----------	----------	276, 948, 700	2, 233, 772
Paranzella nets	----------	----------	12, 913, 000	617, 448
Otter trawls	----------	----------	593, 240, 600	15, 612, 571
Beam trawls	----------	----------	509, 900	19, 505
Pots	[6] 310, 455	[6] 26, 277	20, 709, 355	2, 787, 508
Harpoons	----------	----------	3, 941, 800	442, 955
Spears	2, 250	270	382, 750	28, 238
Scrapes, crab	----------	----------	2, 016, 900	156, 312
Dredges	3, 699, 100	40, 958	70, 543, 800	6, 688, 703
Tongs	1, 601, 876	21, 091	51, 513, 876	4, 577, 714
Crowfoot bars	20, 893, 550	265, 443	21, 528, 750	284, 170
Rakes	370, 130	4, 029	6, 328, 830	667, 426
Forks	4, 812, 737	76, 214	5, 492, 137	203, 462
Hoes	----------	----------	16, 603, 300	1, 050, 296
Grabs	873, 099	130, 621	2, 590, 499	198, 692
Picks	----------	----------	470, 900	53, 701
Hooks	----------	----------	167, 100	265, 584
Diving apparatus, abalone and sponge	----------	----------	1, 044, 300	1, 047, 328
By hand	5, 877, 304	93, 528	9, 596, 404	339, 115
Total	82, 382, 523	2, 897, 357	3, 517, 729, 923	86, 127, 708

[6] Includes catch by baskets.

Industries related to the fisheries of the United States and Alaska, 1937 [1]

Item	New England	Middle Atlantic	Chesapeake	South Atlantic and Gulf
Transporting:				
Persons engaged:	*Number*	*Number*	*Number*	*Number*
On vessels	202	57	1, 196	344
On boats	32	69	----------	208
Total	234	126	1, 196	552
Vessels:				
Steam	----------	----------	1	----------
Net tonnage	----------	----------	83	----------
Motor	87	20	600	137
Net tonnage	1, 294	432	6, 353	1, 376
Sail	----------	----------	1	34
Net tonnage	----------	----------	21	326
Total vessels	87	20	602	171
Total net tonnage	1, 294	432	6, 457	1, 702
Boats	18	68	----------	147
Wholesale and manufacturing:				
Establishments	400	419	561	725
Persons engaged:				
Proprietors	332	211	718	725
Salaried employees	802	1, 020	385	532
Wage earners:				
Average for season	10, 988	5, 608	10, 902	17, 277
Average for year	6, 559	4, 229	4, 645	5, 757
Salaries and wages paid	$7, 705, 479	$8, 611, 693	$3, 068, 069	$3, 863, 777
Manufactured products	$24, 038, 947	$18, 658, 605	$10, 009, 939	$15, 110, 653
Fishermen's manufactured products:				
Persons engaged	3, 416	285	80	1, 476
Products	$1, 098, 993	$208, 641	$14, 220	$240, 902

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[1] Data for Mississippi River and tributaries are for 1931 except that the value shown for manufactured products includes that of mussel-shell products for 1937.

Industries related to the fisheries of the United States and Alaska, 1937—Continued

Item	Pacific	Lakes	Mississippi River and tributaries	Alaska	Total
Transporting:					
Persons engaged:	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	210	23	29	2, 159	4, 220
On boats		12		(2)	321
Total	210	35	29	2, 159	4, 541
Vessels:					
Steam				7	8
Net tonnage				23, 986	24, 069
Motor	76	14	8	421	1, 363
Net tonnage	1, 724	164	104	14, 505	25, 952
Sail					35
Net tonnage					347
Total vessels	76	14	8	428	1, 406
Total net tonnage	1, 724	164	104	38, 491	50, 368
Boats		4		[3] 775	1, 012
Wholesale and manufacturing:					
Establishments	330	230	217	236	3, 118
Persons engaged:					
Proprietors	377	167	204	16, 602	93, 606
Salaried employees	1, 154	445	355		
Wage earners:					
Average for season	18, 261	2, 266	4, 275		
Average for year	6, 989	1, 277	3, 483	(4)	(4)
Salaries and wages paid	$10, 669, 409	$2, 594, 914	$3, 080, 430	(4)	(4)
Manufactured products	$56, 149, 695	$3, 196, 461	$4, 056, 296	$49, 865, 339	$181, 085, 935
Fishermen's manufactured products:					
Persons engaged	152	223	216	(4)	(4)
Products	$212, 151	$51, 546	$8, 751	(4)	(4)

[2] Included on vessels.

[3] Includes scows, houseboats, pile drivers, etc.

[4] Statistics not available.

NOTE.—Of the total number of persons engaged in the preparation of fishermen's manufactured products 5,574 have also been included as fishermen, and 1,509 of the persons shown on transporting craft have also been included as fishermen.

MANUFACTURED FISHERY PRODUCTS

The output of manufactured fishery products (canned, cured, packaged, and byproducts) in the United States and Alaska during the most recent years for which data are available was valued at $185,292,159. Of this amount, canned products accounted for 57 percent, byproducts 20 percent, fresh and frozen packaged products 15 percent, and cured products 8 percent.

Since complete general statistical surveys were conducted for 1937 data in each of the geographical sections of the United States and Alaska except the Mississippi River area, the following compilation of manufactured fishery products consists of data for 1937 with the exception of a small quantity of salted and smoked fish produced in the Mississippi River section.

Manufactured fishery products of the United States and Alaska, 1937 [1]

Item	Quantity	Value
Alewives:		
Salted:		
Corned...pounds	5, 841, 359	$93, 178
Pickled...do	[2] 2, 471, 575	70, 701
Spiced...do	1, 828, 353	122, 160
Round...do	1, 450, 900	40, 728
Tight-pack cut...do	1, 667, 150	56, 787
Tight-pack roe alewives...do	66, 925	3, 129
Smoked...do	242, 450	12, 655
Canned...standard cases	54, 993	139, 585
Roe, canned...do	51, 272	304, 922
Dry scrap...tons	750	31, 327
Oil...gallons	12, 450	3, 073
Amberjack, smoked...pounds	900	225
Barracuda, fresh fillets...do	650, 000	97, 500
Bluefish:		
Salted...do	28, 600	1, 688
Smoked...do	2, 500	500
Blue runner, salted...do	360, 000	12, 580
Buffalofish, smoked [3]...do	925, 500	239, 878
Butterfish, smoked [3]...do	822, 090	209, 701
Cabrilla, fresh fillets...do	55, 000	8, 450
Carp, smoked [3]...do	206, 207	45, 119
Catfish and bullheads, smoked...do	4, 100	825
Chub, cisco, and tullibees, smoked [3]...do	7, 616, 061	2, 023, 206
Cod:		
Fresh fillets...do	11, 229, 478	1, 305, 840
Frozen fillets...do	11, 026, 784	930, 838
Fresh sticks...do	251, 060	25, 469
Salted:		
Green...do	[2] 5, 900, 219	300, 433
Dry...do	3, 862, 549	263, 843
Boneless and absolutely boneless...do	10, 035, 072	1, 810, 519
Pickled...do	40, 510	2, 136
Tongues...do	18, 940	1, 615
Smoked...do	1, 500	300
Smoked, fillets...do	793, 702	104, 497
Stockfish...do	22, 043	3, 013
Oil:		
Cod...gallons	7, 429	2, 889
Cod-liver...do	275, 802	167, 572
Croaker:		
Fresh fillets...pounds	97, 800	12, 070
Fresh pan-dressed...do	107, 600	9, 550
Cusk:		
Fresh fillets...do	919, 268	104, 772
Frozen fillets...do	161, 649	13, 777
Fresh sticks...do	487, 319	54, 670
Salted, green...do	[2] 42, 200	1, 633
Smoked fillets...do	513, 863	66, 113
Drum, red, smoked...do	200	50
Eels:		
Salted...do	76, 550	6, 482
Smoked [3]...do	156, 194	40, 592
Flounders:		
Fresh fillets...do	6, 324, 497	1, 038, 227
Frozen fillets...do	1, 540, 379	247, 580
Fresh pan-dressed...do	5, 100	694
Grayfish, fresh fillets...do	25, 000	3, 125
Groupers:		
Fresh fillets...do	167, 801	28, 906
Fresh steaks...do	436, 900	67, 590
Haddock:		
Fresh fillets...do	17, 491, 840	2, 088, 705
Frozen fillets...do	22, 714, 862	2, 066, 806
Fresh sticks...do	34, 472	6, 105
Salted, green...do	[2] 201, 800	9, 063
Smoked...do	52, 900	9, 054
Finnan haddie...do	796, 019	95, 382
Hake:		
Fresh fillets...do	1, 863, 932	182, 510
Frozen fillets...do	431, 885	28, 467
Fresh sticks...do	457, 799	49, 772
Salted:		
Green...do	1, 204, 675	39, 028
Dry...do	1, 664, 816	76, 704
Boneless...do	1, 279, 400	99, 977
Halibut:		
Fresh fillets...do	44, 608	13, 507
Frozen steaks...do	118, 665	19, 232

See footnotes at end of table.

Manufactured fishery products of the United States and Alaska, 1937—Continued

Item	Quantity	Value
Herring, lake:		
Fresh fillets ... pounds	229, 386	$26, 570
Salted ... do	4, 573, 770	187, 440
Smoked ... do	1, 165, 500	100, 505
Herring, sea:		
Salted:		
Pickled, scotch cure ... do	2, 098, 040	107, 968
Pickled and spiced ... do	1, 578, 126	140, 091
Roused ... do	10, 400	385
Split ... do	232, 800	7, 084
Unclassified ... do	1, 102, 642	64, 807
Smoked:		
Bloaters, hard ... pounds	151, 220	5, 910
Bloaters, soft ... do	21, 768	1, 136
Bloaters, unclassified ... do	1, 125, 827	90, 894
Boneless ... do	2, 096, 272	204, 841
Lengthwise ... do	84, 845	4, 725
Medium scaled ... do	263, 362	16, 949
Kippered ... do	251, 738	34, 309
Unclassified ... do	105, 000	10, 490
Canned, "sardines" ... standard cases	1, 680, 241	4, 998, 373
Dry scrap ... tons	1, 452	40, 622
Meal ... do	20, 460	680, 382
Oil ... gallons	5, 623, 045	2, 114, 548
Hogchoker, salted ... pounds	9, 075	475
King whiting, fresh fillets ... do	1, 050	237
Lake trout:		
Fresh fillets ... do	25, 857	7, 524
Smoked ... do	734, 534	242, 557
"Lingcod," fresh fillets ... do	213, 618	25, 721
Mackerel:		
Fresh fillets ... do	242, 640	31, 936
Frozen fillets ... do	111, 365	18, 407
Salted:		
Fillets ... do	678, 876	77, 714
Split ... do	1, 122, 649	113, 283
Smoked ... do	900, 550	134, 032
Canned ... standard cases	840, 832	2, 673, 608
Meal ... tons	2, 194	77, 827
Oil ... gallons	80, 811	30, 812
Menhaden:		
Acid scrap ... tons	31, 600	618, 104
Dry scrap ... do	22, 763	985, 075
Meal ... do	13, 038	596, 144
Oil ... gallons	3, 895, 613	1, 456, 333
Mooneye, smoked ... pounds	8, 200	1, 064
Mullet:		
Salted ... do	2, 715, 500	149, 193
Roe, salted ... do	40, 850	9, 628
Smoked ... do	32, 550	5, 599
Paddlefish or spoonbill cat:		
Roe, salted [4] ... do	1, 595	812
Smoked [3] ... do	329, 100	132, 525
Pike, pickerel and sauger:		
Fresh fillets ... do	4, 215, 282	941, 436
Frozen fillets ... do	1, 025, 806	236, 244
Smoked ... do	2, 420	605
Pilchard:		
Canned, "sardines" ... standard cases	2, 812, 456	8, 592, 117
Meal ... tons	89, 422	3, 325, 282
Oil ... gallons	15, 993, 216	6, 203, 616
Pollock:		
Fresh fillets ... pounds	1, 506, 452	123, 042
Frozen fillets ... do	11, 616, 993	710, 601
Fresh sticks ... do	68, 520	6, 031
Salted:		
Green ... do	[3] 434, 405	10, 851
Dry ... do	97, 143	4, 043
Rockfishes, fresh fillets ... do	1, 103, 298	163, 266
Rosefish:		
Fresh fillets ... do	686, 112	75, 525
Frozen fillets ... do	14, 822, 908	1, 419, 018
Sablefish:		
Fresh steaks ... do	25, 000	3, 750
Kippered ... do	496, 068	91, 030
Pickled ... do	190, 185	6, 794
Salted ... do	262, 375	14, 620
Smoked [3] ... do	106, 087	27, 519
Sailfish, smoked ... do	10, 000	2, 200

See footnotes at end of table.

Manufactured fishery products of the United States and Alaska, 1937—Continued

Item	Quantity	Value
Salmon:		
Fresh and frozen fillets....pounds	13, 507	$3, 494
Fresh and frozen steaks....do	98, 480	23, 600
Dried....do	1, 148, 000	79, 900
Salted:		
Dry....do	11, 725	1, 900
Mild-cured....do	9, 615, 175	1, 862, 868
Pickled....do	765, 396	100, 550
Eggs for caviar....do	274, 000	29, 740
Kippered....do	1, 848, 896	401, 718
Kippered, canned....standard cases	157	1, 794
Smoked [3]....pounds	10, 323, 848	3, 113, 577
Canned:		
Blueback, red, or sockeye....standard cases	2, 176, 924	22, 475, 958
Chinook or king....do	370, 480	4, 773, 689
Chum or keta....do	796, 829	3, 660, 357
Humpback or pink....do	3, 954, 169	19, 639, 749
Silver or coho....do	239, 946	2, 193, 725
Steelhead trout....do	16, 689	190, 456
Eggs for bait....do	5, 349	85, 398
Caviar....do	1, 534	36, 001
Meal....tons	1, 608	49, 356
Oil [5]....gallons	167, 265	94, 122
Scup or porgy:		
Fresh fillets....pounds	24, 400	3, 690
Fresh pan-dressed....do	30, 500	2, 845
Sea bass:		
Fresh fillets (Atlantic coast)....do	114, 800	18, 770
Black, fresh steaks (Pacific coast)....do	250, 000	40, 000
White, fresh fillets (Pacific coast)....do	175, 000	41, 000
Fresh pan-dressed (Atlantic coast)....do	62, 500	6, 850
Shad:		
Smoked....do	179, 160	35, 441
Canned....standard cases	9, 219	30, 554
Roe, canned....do	1, 891	49, 868
Sharks:		
Fins....pounds	30, 263	13, 388
Skins....do	138, 058	12, 306
Oil....gallons	9, 880	4, 096
Sheepshead:		
Fresh fillets....pounds	25, 700	3, 820
Smoked [3]....do	22, 817	2, 830
Snapper, red:		
Fresh fillets....do	82, 067	24, 013
Fresh steaks....do	24, 475	5, 262
Spanish mackerel:		
Fresh fillets....do	9, 500	1, 750
Salted....do	80, 000	4, 630
Smoked....do	300	75
Spot, salted....do	218, 400	8, 886
Squeteagues or "sea trout":		
Fresh fillets....do	186, 500	26, 310
Fresh pan-dressed....do	344, 952	26, 046
Salted....do	20, 800	3, 120
Smoked....do	650	163
Sturgeon:		
Smoked and kippered [3]....do	1, 624, 588	1, 032, 076
Roe, salted [3]....do	436	508
Caviar, canned....standard cases	3, 053	435, 370
Swordfish, fresh and frozen steaks....pounds	133, 625	30, 868
Totuave, fresh steaks....do	515, 000	93, 000
Tuna and tunalike fishes:		
Canned:		
Albacore....standard cases	114, 461	806, 391
Bluefin....do	217, 251	1, 236, 324
Bonito....do	152, 175	771, 498
Striped....do	695, 007	3, 917, 454
"Tonno"....do	252, 857	1, 915, 779
Yellowfin....do	1, 649, 776	10, 038, 641
Yellowtail....do	62, 974	309, 692
Meal....tons	10, 872	378, 531
Oil....gallons	141, 963	30, 702
White bass:		
Fresh and frozen fillets....pounds	6, 644	1, 215
Smoked....do	1, 400	181

See footnotes at end of table.

Manufactured fishery products of the United States and Alaska, 1937—Continued

Item	Quantity	Value
Whitefish:		
Fresh and frozen fillets...pounds	42, 971	$12, 230
Smoked [3]...do	2, 494, 731	707, 809
Roe, salted...do	60	60
Caviar, canned...standard cases	1, 332	49, 395
Whiting:		
Fresh fillets...pounds	458, 828	32, 188
Frozen fillets...do	922, 065	49, 710
Smoked...do	44, 874	6, 836
Wolffish, fresh and frozen fillets...do	93, 545	9, 052
Yellow perch:		
Fresh fillets...do	608, 556	143, 232
Frozen fillets...do	42, 682	10, 636
Crabs, hard:		
Meat, packaged, fresh-cooked...do	8, 300, 484	2, 822, 485
Canned...standard cases	13, 646	268, 634
Dry scrap...tons	1, 303	26, 629
Crab, king:		
Dry scrap...do	535	19, 371
Meal...do	25	625
Lobsters:		
Common, meat, packaged, fresh-cooked...pounds	157, 085	168, 290
Spiny, meat, packaged, fresh-cooked...do	92, 800	36, 620
Shrimp:		
Fresh-packaged...do	519, 704	170, 520
Frozen-packaged...do	6, 567	2, 627
Cooked and peeled...do	924, 899	272, 854
Sun-dried...do	1, 384, 251	252, 747
Canned...standard cases	1, 286, 406	7, 130, 747
Bran or meal...tons	1, 452	33, 793
Abalone steaks...pounds	541, 000	165, 154
Clams, hard:		
Fresh-shucked...gallons	56, 500	89, 298
Canned:		
Whole...standard cases	30, 019	144, 012
Minced...do	32, 777	178, 835
Chowder...do	419, 622	1, 468, 476
Juice...do	12, 751	44, 376
Broth, bouillon, and cocktail...do	7, 935	36, 243
Shells, ground, poultry feed...tons	1, 050	9, 100
Clams, razor:		
Fresh-shucked...gallons	37, 467	15, 107
Canned:		
Whole...standard cases	1, 529	13, 021
Minced...do	42, 259	367, 281
Clams, soft:		
Fresh-shucked...gallons	5, 928, 956	699, 721
Canned:		
Whole...standard cases	135, 197	489, 806
Chowder...do	76, 051	240, 109
Juice...do	14, 116	25, 769
Steamed...pounds	[2] 157, 220	14, 801
Clams, mixed, fresh-shucked...gallons	75, 644	10, 374
Marine-shell products:		
Buttons...gross	6, 732, 051	4, 316, 961
Novelties...	----------------	762, 934
Mussel, fresh-water, shell products:		
Buttons...gross	17, 145, 649	4, 732, 918
Poultry feed...tons	4, 450	27, 427
Lime...do	1, 026	1, 448
Oysters:		
Eastern:		
Fresh-shucked...gallons	54, 790, 881	8, 440, 142
Canned...standard cases	598, 078	2, 462, 322
Soup, canned...do	32, 961	182, 518
Japanese:		
Fresh-shucked...gallons	3, 109, 855	431, 246
Canned...standard cases	110, 872	470, 359
Western, fresh-shucked...gallons	233, 179	209, 182
Shell products:		
Poultry feed...tons	292, 273	1, 241, 702
Lime and dust...do	75, 893	270, 202
Lime, burned...do	13, 098	89, 119

See footnotes at end of table.

Manufactured fishery products of the United States and Alaska, 1937—Continued

Item	Quantity	Value
Scallops, bay, fresh-shucked .... gallons	166, 872	$466, 683
Scallops, sea, fresh-shucked .... do	720, 957	720, 648
Alligator hides [4] .... pounds	88, 356	7, 363
Terrapin products, canned .... standard cases	136	8, 715
Turtle products, canned .... do	5, 824	73, 737
Whale products:		
Meal (meat) .... tons	770	25, 410
Meal (bone) .... do	435	7, 395
Oil, whale .... gallons	9, 052, 202	4, 122, 669
Oil, sperm .... do	174, 087	47, 332
Unclassified products:		
Fillets, fresh .... pounds	[6] 76, 155	[6] 12, 753
Fillets, frozen .... do	[7] 205, 249	[7] 31, 747
Pan-dressed, fresh .... do	[8] 101. 400	[8] 6, 240
Miscellaneous, packaged, fresh and frozen .... do	[9] 1, 186, 455	[9] 88, 356
Salted .... do	[10] 875. 748	[10] 107, 065
Smoked .... do	[11] 84, 435	[11] 9, 665
Canned:		
Fish for cat and dog food .... standard cases	377, 041	840, 307
Fish cakes, balls, etc .... do	109, 285	754, 770
Fish chowder .... do	2, 099	12, 557
Fish flakes .... do	39, 880	353, 071
Fish paste .... do	3, 696	137, 624
Other .... do	[12] 16, 762	[12] 144, 948
Acid, dry, and green scrap .... tons	[13] 1, 537	[13] 35, 314
Meal:		
Ground fish (white fish) .... do	14, 178	396, 995
Miscellaneous .... do	[14] 5, 548	[14] 237, 353
Oil:		
Fur seal .... gallons	29, 341	5, 397
Liver, miscellaneous .... do	[15] 72, 119	[15] 2, 036, 525
Miscellaneous .... do	[16] 99, 446	[16] 36, 066
Glue .... do	441, 912	908, 121
Other byproducts	--------	[17] 497, 132
Total, fresh and frozen packaged products .... pounds	201, 802, 529	27, 677, 899
Total, cured products .... do	104, 339, 340	15, 635, 280
Total, canned products .... do	742, 197, 065	105, 174, 935
Total, byproducts	--------	36, 804, 045
Grand total	--------	185, 292, 159

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[1] All data are for 1937 except for a small quantity of salted and smoked fish produced in the Mississippi River section which are for 1931.

[2] This is usually an intermediate product and although shown in the total may also be shown in its final stage of processing elsewhere in the table.

[3] Data are for 1937 and 1931.

[4] Data are for 1931.

[5] Includes the production of both edible and industrial salmon oils.

[6] Includes fresh fillets of carp, red drum, kingfish or "king mackerel," mullet, muttonfish, sea robin, snook or sergeantfish, striped bass, and suckers.

[7] Includes frozen fillets of bluefish, croaker, halibut, king whiting or "kingfish," lake trout, "lingcod," Spanish mackerel, spot, and squeteagues or "sea trout."

[8] Includes fresh pan-dressed red drum, Spanish mackerel, and whiting.

[9] Includes fresh steaks of cabio, cod, haddock, halibut, mackerel, pollock, and snook or sergeantfish; frozen steaks of cod, pollock, and wolffish; and fresh sticks of whiting.

[10] Includes salted barracuda, haddock, lake trout, pilchard, black and white sea bass, tenpounder, tuna, yellowtail, fillets of cod, hake, and Spanish mackerel, boneless cusks; king whiting or "kingfish" roe, and salmon bellies; spiced anchovies, chub, mackerel, and oyster and shrimp cocktail; pickled eels, and sea-herring roe.

[11] Includes smoked goldeye, hake, scup or porgy, miscellaneous fish, and fillets of haddock, hake, sea herring, and pollock.

[12] Includes canned salted cod, pickled eels, finnan haddie, kippered sturgeon, tuna roe, fish bouillon, soft crabs, spiny lobster or "sea crawfish" soup, shrimp soup, hard-clam stew, razor-clam juice, soft-clam cakes, coquina clam broth, pickled sea mussels, squid, frog products, deep-sea roe, rat poison bait, and crab and shrimp gumbo.

[13] Includes shark and miscellaneous dry scrap; alewife acid scrap; and sea herring and miscellaneous green scrap.

[14] Includes salmon-egg, shark, soft-clam, starfish, cod-liver, and miscellaneous fish meals.

[15] Includes burbot, halibut, sablefish, shark, swordfish, and tuna liver oils.

[16] Includes blackfish, rosefish, and miscellaneous fish oils.

[17] Includes isinglass, kelp products, pearl essence, clam-shell lime, miscellaneous novelties, and fresh-water mussel-shell novelties, stucco, and chips.

NOTE.—Some of the above products have been manufactured from raw products imported from another country; therefore, they cannot be correlated directly with the catch within the United States and Alaska.

CANNED FISHERY PRODUCTS AND BYPRODUCTS TRADE

The output of canned fishery products and byproducts in the United States and Alaska in 1937 was valued at $141,978,980. Of this total, canned products comprised $105,174,935, and byproducts, $36,804,045—an increase of 11 percent in the value of canned products and 5 percent in the value of byproducts when compared with the respective values of the same groups of commodities for the previous year.

Fishery products were canned at 405 establishments in the United States and Alaska during 1937. The combined output of these canneries amounted to 19,530,809 standard cases. The net weight of the products canned amounted to 742,197,065 pounds.

Canned fishery products or byproducts were prepared in 26 States and in Alaska during 1937. Alaska ranked first in the value of the products, accounting for 34 percent of the total, and California ranked second, with 29 percent.

Canned fishery products and byproducts of the United States and Alaska, 1937

SUMMARY OF PRODUCTION: BY COMMODITIES

Product	Number of plants	Standard cases	Pounds	Value
Canned products:				
Salmon:				
United States	28	885, 372	42, 497, 856	$8, 386, 165
Alaska	113	6, 669, 665	320, 143, 920	44, 547, 769
Sardines:				
Maine	25	1, 680, 241	42, 006, 025	4, 998, 373
California	34	2, 812, 456	134, 997, 888	8, 592, 117
Tuna and tunalike fishes	19	3, 144, 501	75, 468, 024	18, 995, 779
Mackerel	28	840, 832	40, 359, 936	2, 673, 608
Alewives	11	54, 993	2, 639, 664	139, 585
Alewife roe	32	51, 272	2, 461, 056	304, 922
Shad	9	9, 219	442, 512	30, 554
Shad roe	8	1, 891	90, 768	49, 868
Cat and dog food	9	377, 041	18, 097, 968	840, 307
Fish flakes	4	39, 880	1, 914, 240	353, 071
Fish cakes, balls, etc	8	109, 285	5, 245, 680	754, 770
Fish paste	4	3, 696	177, 408	137, 624
Sturgeon caviar	4	3, 053	146, 544	435, 370
Whitefish roe and caviar	5	1, 332	63, 936	49, 395
Salmon roe and caviar (for food)	4	1, 534	73, 632	36, 001
Salmon eggs (for bait)	10	5, 349	256, 752	85, 398
Miscellaneous fish and roe	15	11, 194	537, 312	101, 586
Clam products	54	[1] 773, 448	19, 576, 725	3, 013, 446
Oysters	51	708, 950	10, 634, 250	2, 932, 681
Oyster soup	3	32, 961	1, 582, 128	182, 518
Shrimp	61	1, 286, 406	21, 523, 417	7, 130, 747
Crabs	18	13, 697	657, 456	269, 699
Terrapin products	4	136	6, 528	8, 715
Turtle products	3	5, 824	279. 552	73, 737
Miscellaneous shellfish	9	6, 581	315, 888	51, 130
Total	[2] 405	19, 530, 809	742, 197, 065	105, 174, 935
Byproducts:			*Quantity*	
Oyster and marine clam-shell products		tons	382, 718	1, 612, 847
Fresh-water mussel-shell products				4, 791, 205
Marine pearl-shell products				5, 079, 895
Scrap, meal, etc		tons	219, 942	7, 565, 535
Marine-animal oils		gallons	35, 634, 669	16, 355, 752
Miscellaneous byproducts				1, 398, 811
Total				36, 804, 045
Grand total				141, 978, 980

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[1] "Cut-out" or "drained" weights of can contents are included for whole or minced clams, and gross can contents for other clam products.

[2] Exclusive of duplication.

Canned fishery products and byproducts of the United States and Alaska, 1937—Con.

VALUE OF PRODUCTION: BY STATES

State	Canned products	Byproducts	Total
Maine	$6, 022, 341	$460, 700	$6, 483, 041
Massachusetts	1, 135, 187	2, 129, 293	3, 286, 134
Rhode Island		21, 654	
Connecticut		1, 195, 087	1, 195, 087
New York	702, 709	6, 079, 398	6, 782, 107
New Jersey	1, 411, 385	1, 946, 263	3, 574, 146
Pennsylvania		216, 498	
Delaware		549, 810	549, 810
Maryland	621, 448	1, 216, 002	1, 837, 450
Virginia	188, 760	1, 524, 306	1, 713, 066
North Carolina	116, 116	778, 775	1, 323, 453
South Carolina	428, 562		
Georgia	716, 861	952, 042	2, 181, 627
Florida	512, 724		
Alabama	375, 167	81, 721	3, 440, 003
Mississippi	2, 983, 115		
Louisiana	4, 347, 599	366, 393	4, 713, 992
Texas, Illinois, Missouri, Wisconsin, and Minnesota	389, 080	215, 380	604, 460
Iowa		3, 719, 580	3, 719, 580
Washington	5, 276, 928	1, 646, 841	6, 923, 769
Oregon	4, 163, 681	456, 653	4, 620, 334
California	30, 741, 773	9, 975, 414	40, 717, 187
Alaska	45, 041, 499	3, 272, 235	48, 313, 734
Total	105, 174, 935	36, 804, 045	141, 978, 980

PACK OF CANNED SALMON: STANDARD CASES

Product	Alaska							
	Southeastern		Central		Western		Total	
	Cases	*Value*	*Cases*	*Value*	*Cases*	*Value*	*Cases*	*Value*
Chinook or king:								
1-pound tall	24, 981	$212, 802	17, 443	$149, 468	5, 336	$42, 453	47, 760	$404, 723
1-pound flat	1, 794	17, 222	3, 409	43, 396	1, 010	13, 130	6, 213	73, 748
½-pound flat	3, 918	52, 109	10, 792	148, 655	785	11, 304	15, 495	212, 068
Total	30, 693	282, 133	31, 644	341, 519	7, 131	66, 887	69, 468	690, 539
Blueback, red, or sockeye:								
1-pound tall	103, 269	1, 018, 890	312, 158	3, 038, 350	1, 450, 749	14, 294, 077	1, 866, 176	18, 351, 317
1-pound flat	8, 694	95, 634	78, 046	855, 594	914	10, 054	87, 654	961, 282
½-pound flat	55, 781	759, 456	68, 622	892, 874	25, 021	315, 271	149, 424	1, 967, 601
4-pound flat			3, 415	33, 638			3, 415	33, 638
Total	167, 744	1, 873, 980	462, 241	4, 820, 456	1, 476, 684	14, 619, 402	2, 106, 669	21, 313, 838
Silver or coho:								
1-pound tall	78, 328	631, 983	45, 144	349, 122	138	1, 030	123, 610	982, 135
1-pound flat	1, 008	9, 060	196	1, 568			1, 204	10, 628
½-pound flat	9, 189	97, 464	436	3, 944			9, 625	101, 408
4-pound flat			2, 878	23, 744			2, 878	23, 744
Total	88, 525	738, 507	48, 654	378, 378	138	1, 030	137, 317	1, 117, 915
Humpback or pink:								
1-pound tall	2, 111, 246	10, 544, 503	1, 475, 658	7, 251, 025	1	5	3, 586, 905	17, 795, 533
1-pound flat	420	2, 016	18	90			438	2, 106
½-pound flat	31, 502	216, 669	1, 836	12, 155			33, 338	228, 824
4-pound flat			4, 698	23, 020			4, 698	23, 020
Total	2, 143, 168	10, 763, 188	1, 482, 210	7, 286, 290	1	5	3, 625, 379	18, 049, 483
Chum or keta:								
1-pound tall	501, 093	2, 303, 746	187, 266	866, 211	35, 456	165, 033	723, 815	3, 334, 990
1-pound flat	39	140					39	140
½-pound flat	2, 634	16, 491	3, 249	19, 993			5, 883	36, 484
4-pound flat			1, 095	4, 380			1, 095	4, 380
Total	503, 766	2, 320, 377	191, 610	890, 584	35, 456	165, 033	730, 832	3, 375, 994
Grand total	2, 933, 896	15, 978, 185	2, 216, 359	13, 717, 227	1, 519, 410	14, 852, 357	6, 669, 665	44, 547, 769

Canned fishery products and byproducts of the United States and Alaska, 1937—Con.

PACK OF CANNED SALMON: STANDARD CASES—Continued

Product	United States						Grand total, Alaska and United States	
	Washington		Oregon		Total			
Chinook or king:	*Cases*	*Value*	*Cases*	*Value*	*Cases*	*Value*	*Cases*	*Value*
1-pound tall	16, 756	$127, 923	10, 113	$61, 260	26, 869	$189, 183	74, 629	$593, 906
1-pound oval	23	529	645	14, 835	668	15, 364	668	15, 364
1-pound flat	24, 394	281, 779	39, 411	433, 861	63, 805	715, 640	70, 018	789, 388
½-pound oval	4	104	474	12, 324	478	12, 428	478	12, 428
½-pound flat	45, 991	671, 425	140, 083	2, 097, 129	186, 074	2, 768, 554	201, 569	2, 980, 622
¼-pound flat	154	1, 720	22, 964	380, 261	23, 118	381, 981	23, 118	381, 981
Total	87, 322	1, 083, 480	213, 690	2, 999, 670	301, 012	4, 083, 150	370, 480	4, 773, 689
Blueback, red, or sockeye:								
1-pound tall	198	2, 178	----------	----------	198	2, 178	1, 866, 374	18, 353, 495
1-pound flat	5, 913	82, 782	----------	----------	5, 913	82, 782	93, 567	1, 044, 064
½-pound flat	58, 851	984, 866	4, 248	73, 066	63, 099	1, 057, 932	212, 523	3, 025, 533
¼-pound flat	222	4, 085	823	15, 143	1, 045	19, 228	1, 045	19, 228
4-pound flat	----------	----------	----------	----------	----------	----------	3, 415	33, 638
Total	65, 184	1, 073, 911	5, 071	88, 209	70, 255	1, 162, 120	2, 176, 924	22, 475, 958
Silver or coho:								
1-pound tall	3, 745	31, 360	3, 390	27, 120	7, 135	58, 480	130, 745	1, 040, 615
1-pound flat	9, 003	84, 628	18, 006	169, 256	27, 009	253, 884	28, 213	264, 512
½-pound oval	----------	----------	294	4, 116	294	4, 116	294	4, 116
½-pound flat	26, 209	283, 057	32, 454	350, 503	58, 663	633, 560	68, 288	734, 968
¼-pound flat	----------	----------	9, 528	125, 770	9, 528	125, 770	9, 528	125, 770
4-pound flat	----------	----------	----------	----------	----------	----------	2, 878	23, 744
Total	38, 957	399, 045	63, 672	676, 765	102, 629	1, 075, 810	239, 946	2, 193, 725
Humpback or pink:								
1-pound tall	304, 271	1, 430, 074	----------	----------	304, 271	1, 430, 074	3, 891, 176	19, 225, 607
1-pound flat	4, 669	25, 212	----------	----------	4, 669	25, 212	5, 107	27, 318
½-pound flat	19, 850	134, 980	----------	----------	19, 850	134, 980	53, 188	363, 804
4-pound flat	----------	----------	----------	----------	----------	----------	4, 698	23, 020
Total	328, 790	1, 590, 266	----------	----------	328, 790	1, 590, 266	3, 954, 169	19, 639, 749
Chum or keta:								
1-pound tall	33, 342	143, 688	30, 519	127, 486	63, 861	271, 174	787, 676	3, 606, 164
1-pound flat	35	182	----------	----------	35	182	74	322
½-pound flat	1, 148	7, 289	953	5, 718	2, 101	13, 007	7, 984	49, 491
4-pound flat	----------	----------	----------	----------	----------	----------	1, 095	4, 380
Total	34, 525	151, 159	31, 472	133, 204	65, 997	284, 363	796, 829	3, 660, 357
Steelhead:								
1-pound tall	842	5, 894	617	4, 319	1, 459	10, 213	1, 459	10, 213
1-pound flat	1, 164	10, 476	1, 939	17, 451	3, 103	27, 927	3, 103	27, 927
½-pound oval	----------	----------	1, 516	23, 043	1, 516	23, 043	1, 516	23, 043
½-pound flat	616	6, 653	4, 754	51, 343	5, 370	57, 996	5, 370	57, 996
¼-pound flat	901	12, 253	4, 340	59, 024	5, 241	71, 277	5, 241	71, 277
Total	3, 523	35, 276	13, 166	155, 180	16, 689	190, 456	16, 689	190, 456
Grand total	558, 301	4, 333, 137	327, 071	4, 053, 028	885, 372	8, 386, 165	7, 555, 037	52, 933, 934

NOTE.—"Standard cases" represents the various-sized cases converted to the equivalent of 48 1-pound cans to the case. Salmon were canned at 21 plants in Washington, 7 in Oregon, and 113 in Alaska.

Canned fishery products and byproducts of the United States and Alaska, 1937—Con.

PACK OF CANNED SARDINES

Sardines (herring)	Maine	
	Cases	*Value*
Quarters, ¼-pound (100 cans):		
In olive oil	6, 778	$36, 344
In cottonseed oil	1, 458, 086	4, 371, 322
In mustard	106, 156	334, 610
In tomato sauce	20, 409	66, 052
Three-quarters, ¾-pound (48 cans):		
In mustard	61, 675	190, 045
Total	1, 653, 104	4, 998, 373
Total (standard cases)	1, 680, 241	

Sardines (pilchard)	California	
	Cases	*Value*
1-pound:		
Oval:		
In mustard (48 cans)	256, 244	$791, 496
In tomato sauce (48 cans)	1, 093, 991	3, 350, 525
In natural oil (48 cans)	52, 567	158, 984
In other sauces or oils (48 cans)	16, 061	54, 610
Tall:		
In tomato sauce (48 cans)	14, 767	34, 799
In natural oil (48 cans)	857, 800	2, 169, 469
½-pound:		
Oval:		
In natural oil (96 cans)	18, 496	59, 167
In other sauces or oils (48 cans)	817	2, 379
Square and oblong:		
In various sauces and oils (48 cans)	43, 279	132, 939
Other:		
In natural oil (96 cans)	277, 886	892, 214
In other sauces or oils (48 cans)	34, 441	96, 732
5-ounce eastern oyster:		
In tomato sauce (100 cans)	51, 986	167, 453
In natural oil (100 cans)	224, 189	644, 115
Other sizes:		
In various sauces or oils (standard cases)	5, 585	37, 235
Total	2, 948, 109	8, 592. 117
Total (standard cases)	2, 812, 456	

NOTE.—"Standard cases" represents the various-sized cases converted to the uniform basis of 100 ¼-pound cans to the case of sardines (herring), and 48 1-pound cans to the case of sardines (pilchard). Sardines were canned at 25 plants in Maine and 34 in California.

PACK OF CANNED TUNA AND TUNALIKE FISHES IN CALIFORNIA[3]

Product and size	Albacore		Yellowfin		Bluefin		Striped	
	Cases	*Value*	*Cases*	*Value*	*Cases*	*Value*	*Cases*	*Value*
¼-pound (48 cans)	213	$931	187, 581	$798, 198	23, 238	$97, 659	41, 850	$158, 776
½-pound (48 cans)	79, 352	592, 520	1, 116, 820	6, 899, 728	149, 560	856, 695	591, 091	3, 338, 453
1-pound (48 cans)	[4] 9, 625	[4] 130, 044	[4] 114, 056	[4] 1,268, 189	15, 891	159, 224	30, 479	309, 092
Total (actual cases)	89, 190	723, 495	1, 418, 457	8, 966, 115	188. 689	1, 113, 578	663, 420	3, 806, 321
Total (standard cases)	98, 708		1, 438, 722		192, 961		672, 974	
Flakes:								
½-pound (48 cans)	9, 983	54, 784	[5] 156, 907	[5] 819, 337	17, 516	91, 477	16, 097	83, 372
1-pound (48 cans)	2, 885	28, 112	[6] 27, 073	[6] 253, 189	[6] 3, 387	[6] 31, 269	2, 968	27, 761
Total (actual cases)	12, 868	82, 896	183, 980	1, 072, 526	20, 903	122, 746	19, 065	111, 133
Total (standard cases)	15, 753		211, 054		24, 290		22, 033	
Grand total (actual cases)	102, 058	806, 391	1, 602, 437	10, 038, 641	209, 592	1, 236, 324	682, 485	3, 917, 454
Grand total (standard cases)	114, 461		1, 649, 776		217, 251		695, 007	

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[3] Includes the Washington, Oregon, and Massachusetts pack of albacore and bluefin tuna, amounting to 15,143 standard cases, valued at $118,762.

[4] Includes the pack in 4-pound cans, 12 to the case, which has been converted to the equivalent of 1-pound cans, 48 to the case.

[5] Includes the pack in ¼-pound cans, 48 to the case, which has been converted to the equivalent of ½ pound cans, 48 to the case.

[6] Includes the pack of creamed tuna in ¾-pound cans, 48 to the case, which has been converted to the equivalent of 1-pound cans, 48 to the case.

Canned fishery products and byproducts of the United States and Alaska, 1937—Con.

PACK OF CANNED TUNA AND TUNALIKE FISHES IN CALIFORNIA—Continued

Product and size	"Tonno"		Bonito		Yellowtail		Total	
	Cases	*Value*	*Cases*	*Value*	*Cases*	*Value*	*Cases*	*Value*
¼-pound (48 cans)	--------	----------	(7)	(7)	(7)	(7)	252,882	$1,055,564
¼-pound (100 cans)	223,353	$1,763,812	(7)	(7)	--------	----------	223,353	1,763,812
½-pound (48 cans)	20,213	151,967	[7] 104,969	[7] $550,478	[7] 30,946	[7] $159,353	2,092,951	12,549,194
1-pound (48 cans)	--------	----------	23,603	221,020	16,014	150,339	209,668	2,237,908
Total (actual cases)	243,566	1,915,779	128,572	771,498	46,960	309,692	2,778,854	17,606,478
Total (standard cases)	252,857	----------	152,175	----------	62,974	----------	2,871,371	----------
Flakes:								
½-pound (48 cans)	--------	----------	--------	----------	--------	----------	200,503	1,048,970
1-pound (48 cans)	--------	----------	--------	----------	--------	----------	36,313	340,331
Total (actual cases)	--------	----------	--------	----------	--------	----------	236,816	1,389,301
Total (standard cases)	--------	----------	--------	----------	--------	----------	273,130	----------
Grand total (actual cases)	243,566	1,915,779	128,572	771,498	46,960	309,692	3,015,670	18,995,779
Grand total (standard cases)	252,857	----------	152,175	----------	62,974	----------	3,144,501	----------

[7] The pack in ¼-pound cans, 48 and 100 to the case, has been converted to the equivalent of ½-pound cans, 48 to the case.

NOTE.—"Standard cases" represents the various-sized cases converted to the equivalent of 48 ½-pound cans to the case. Tuna and tunalike fishes were canned at 15 plants in California, 1 in Washington, 2 in Oregon, and 1 in Massachusetts.

PACK OF CANNED MACKEREL

Size	Cases	Value
8-ounce (48 cans)	8,724	$29,576
8-ounce (96 cans)	13,405	48,850
16-ounce (48 cans)	[8] 821,621	[8] 2,578,137
Other sizes (standard cases)	1,444	17,045
Total (actual cases)	845,194	2,673,608
Total (standard cases)	840,832	----------

[8] Includes a small amount of mackerel chowder.

NOTE.—"Standard cases" represents the various-sized cans converted to the equivalent of 48 1-pound cans to the case. Mackerel were canned at 2 plants in Massachusetts and 26 in California.

PACK OF CANNED ALEWIVES AND ALEWIFE ROE: STANDARD CASES

Product	Maine and North Carolina		Maryland		Virginia		Total	
	Cases	*Value*	*Cases*	*Value*	*Cases*	*Value*	*Cases*	*Value*
Alewives	--------	----------	35,511	$84,527	19,482	$55,058	54,993	$139,585
Alewife roe	13,012	$87,185	15,030	86,535	23,230	131,202	51,272	304,922
Total	13,012	87,185	50,541	171,062	42,712	186,260	106,265	444,507

PACK OF CANNED ALEWIVES AND ALEWIFE ROE: ACTUAL CASES

Product and size	Cases	Value
Alewives:		
14, 16, 17, and 19 ounces (24 cans)	[9] 83,178	[9] $89,540
26 and 28 ounces (24 cans)	[10] 20,852	[10] 50,045
Total	----------	139,585
Alewife roe:		
8 and 10 ounces (48 cans)	[11] 47,231	[11] 153,032
16, 17, and 19 ounces (24 cans)	[12] 51,373	[12] 151,890
Total	----------	304,922
Grand total	----------	444,507

[9] Consist principally of 14- and 16-ounce cans. Includes 5,957 cases of 48 cans to the case.
[10] Consist principally of 26-ounce cans.
[11] Consist principally of 8-ounce cans.
[12] Consist principally of 17-ounce cans.

NOTE.—"Standard cases" represents the various-sized cases converted to the equivalent of 48 1-pound cans to the case. Alewives or alewife roe were canned at 1 plant in Maine, 7 in Maryland, 19 in Virginia, and 5 in North Carolina.

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PACK OF CANNED OYSTERS: STANDARD CASES

State	Cases	Value
Maryland, North Carolina, and Georgia	14, 879	$61, 190
South Carolina	98, 872	428, 562
Florida	14, 536	60, 890
Alabama	31, 561	132, 256
Mississippi	321, 964	1, 316, 664
Louisiana	116, 266	462, 760
Washington and Oregon	110, 872	470, 359
Total	708, 950	2, 932, 681

PACK OF CANNED OYSTERS: ACTUAL CASES

Size	Cases	Value
3½-ounce (48 cans)	[13] 20, 204	[13] $66, 911
4-ounce (48 cans)	19, 931	74, 742
5-ounce (48 cans)	545, 614	2, 238, 013
6-ounce (48 cans)	349	1, 909
8-ounce (24 cans)	9, 959	38, 459
8-ounce (48 cans)	45, 955	298, 860
10-ounce (24 cans)	51, 336	213, 787
Total	------------	2, 932, 681

[13] Includes the pack in 2-ounce cans, 100 to a case, which has been converted to the equivalent of 3½-ounce cans, 48 to the case.

NOTE.—"Standard cases" represents the various-sized cases converted to the equivalent of 48 5-ounce cans to the case. Oysters were canned at 1 plant in Maryland, 1 in North Carolina, 5 in South Carolina, 1 in Georgia, 4 in Florida, 3 in Alabama, 14 in Mississippi, 12 in Louisiana, 9 in Washington, and 1 in Oregon. The pack of oyster soup has not been included in the pack of oysters but has been shown under "Pack of miscellaneous canned fishery products."

PACK OF CANNED CLAMS AND CLAM PRODUCTS: STANDARD CASES

Product and State	Whole		Minced		Chowder	
	Cases	*Value*	*Cases*	*Value*	*Cases*	*Value*
Soft clams:						
Maine, Massachusetts, New Jersey, and Illinois	[15] 135, 197	[15] $489, 806	----------	----------	[16] 76, 051	[16] $240, 109
Hard clams:						
New Jersey	----------	----------	----------	----------	176, 871	636, 607
Maryland	----------	----------	----------	----------	37, 613	84, 681
Washington	25, 339	108, 785	22, 397	$106, 443	30	206
Alaska	411	2, 845	17	132	----------	----------
Massachusetts, Rhode Island, New York, Pennsylvania, and Florida	[18] 4, 269	[18] 32, 382	[18] 10, 363	[18] 72, 260	205, 249	748, 346
Total	30, 019	144, 012	32, 777	178, 835	419, 763	1, 469, 840
Razor clams:						
Washington	1, 246	10, 466	14, 334	120, 767	----------	----------
Oregon	117	936	1, 288	10, 718	----------	----------
Alaska	166	1, 619	26, 637	235, 796	----------	----------
Total	1, 529	13, 021	42, 259	367, 281	----------	----------
Grand total	166, 745	646, 839	75, 036	546, 116	495, 814	1, 709, 949

[15] Packed in Maine and New Jersey.
[16] Packed in Maine, Massachusetts, and Illinois.
[18] Packed in New York and Florida.

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PACK OF CANNED CLAMS AND CLAM PRODUCTS: STANDARD CASES—Continued

Product and State	Juice, broth, and cocktail [14]		Total	
	Cases	*Value*	*Cases*	*Value*
Soft clams:				
Maine, Massachusetts, New Jersey, and Illinois	14,116	$25,769	225,364	$755,684
Hard clams:				
New Jersey	(17)	(17)	176,871	636,607
Maryland			37,613	84,681
Washington	5,305	11,565	53,071	226,999
Alaska			428	2,977
Massachusetts, Rhode Island, New York, Pennsylvania, and Florida	[17] 16,331	[17] 72,804	236,212	925,792
Total	21,636	84,369	504,195	1,877,056
Razor clams:				
Washington			15,580	131,233
Oregon	101	404	1,506	12,058
Alaska			26,803	237,415
Total	101	404	43,889	380,706
Grand total	35,853	110,542	773,448	3,013,446

[14] Consists of juice from soft clams in Maine; juice from hard clams in New York, Florida, and Washington; broth from hard clams in New York, New Jersey, and Florida; cocktail from hard clams in New York and Florida; juice from razor clams in Oregon; and broth from coquina clams in Florida. The latter item has been included with the New York, New Jersey, and Florida production of hard clam juice, broth, and cocktail.

[17] A small pack of hard-clam broth in New Jersey has been included with the New York and Florida production.

PACK OF CANNED CLAMS AND CLAM PRODUCTS: ACTUAL CASES

Product and size	Whole		Minced		Chowder	
	Cases	*Value*	*Cases*	*Value*	*Cases*	*Value*
Soft clams:						
No. 1 (48 cans)	99,669	$354,228			19,485	$70,263
1-pound (24 cans)					11,945	29,887
1-pound (48 cans)	11,849	75,203				
No. 2 (24 cans)	15,160	54,569				
No. 2½ (24 cans)					26,812	109,490
No. 3 (24 cans)					1,384	4,735
Other sizes (standard cases)	1,410	5,806			8,532	25,734
Total		489,806				240,109
Hard clams:						
½-pound (48 cans)	577	3,308	22,301	$83,678		
No. 1 (48 cans)	1,676	11,984	3,514	18,670	221,146	766,680
1-pound (12 cans)					313,199	528,815
1-pound (24 cans)					30,702	57,081
1-pound (48 cans)	5,765	41,229	18	175		
No. 2 (24 cans)	6,040	34,901	1,701	10,152		
No. 3 (12 cans)					31,781	42,894
No. 10 (6 cans)	8,988	45,335	5,879	53,030	8,806	38,568
Other sizes (standard cases)	932	7,255	2,050	13,130	11,329	35,802
Total		144,012		178,835		1,469,840
Razor clams:						
½-pound (48 cans)			34,691	241,611		
No. 1 (48 cans)	1,458	12,495	14,020	122,345		
1-pound (48 cans)	15	150	63	630		
No. 2 (24 cans)	47	376	385	2,695		
Total		13,021		367,281		
Grand total		646,839		546,116		1,709,949

NOTE.—"Standard cases" represents the various-sized cases converted to the equivalent of 48 No. 1 cans. Soft-clam products were canned at 18 plants in Maine, 2 in Massachusetts, 1 in New Jersey, and 1 in Illinois; hard-clam products, at 1 plant in Massachusetts, 1 in Rhode Island, 1 in New York, 4 in New Jersey, 1 in Pennsylvania, 3 in Maryland, 1 in Florida, 4 in Washington, and 3 in Alaska; razor-clam products, at 5 plants in Washington, 3 in Oregon, and 5 in Alaska; and coquina-clam products, at 1 plant in Florida.

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PACK OF CANNED CLAMS AND CLAM PRODUCTS: ACTUAL CASES—Continued

Product and size	Juice, broth, and cocktail		Total	
	Cases	*Value*	*Cases*	*Value*
Soft clams:				
No. 1 (48 cans)			119, 154	$424, 491
1-pound (24 cans)			11, 945	29, 887
1-pound (48 cans)			11, 849	75, 203
No. 2 (24 cans)	7, 828	$8, 852	22, 988	63, 421
No. 2½ (24 cans)			26, 812	109, 490
No. 3 (24 cans)			1, 384	4, 735
No. 10 (6 cans)	541	879	541	879
Other sizes (standard cases)	5, 598	16, 038	15, 540	47, 578
Total		25, 769		755, 684
Hard clams:				
6-ounce (48 cans)	3, 427	12, 732	3, 427	12, 732
½-pound (48 cans)			22, 878	86, 986
½-pound (96 cans)	171	1, 460	171	1, 460
No. 1 (48 cans)	1, 920	7, 051	228, 256	804, 385
1-pound (12 cans)			313, 199	528, 815
1-pound (24 cans)			30, 702	57, 081
1-pound (48 cans)	142	818	5, 925	42, 222
No. 2 (24 cans)	3, 349	10, 188	11, 090	55, 241
No. 3 (12 cans)			31, 781	42, 894
No. 10 (6 cans)	6, 226	25, 503	29, 899	162, 436
Other sizes (standard cases)	5, 872	26, 617	20, 183	82, 804
Total		84, 369		1, 877, 056
Razor clams:				
½-pound (48 cans)			34, 691	241, 611
No. 1 (48 cans)	91	364	15, 569	135, 204
1-pound (48 cans)			78	780
No. 2 (24 cans)	10	40	442	3, 111
Total		404		380, 706
Grand total		110, 542		3, 013, 446

NOTE.—"Standard cases" represents the various-sized cases converted to the equivalent of 48 No. 1 cans Soft-clam products were canned at 18 plants in Maine, 2 in Massachusetts, 1 in New Jersey, and 1 in Illinois; hard-clam products, at 1 plant in Massachusetts, 1 in Rhode Island, 1 in New York, 4 in New Jersey, 1 in Pennsylvania, 3 in Maryland, 1 in Florida, 4 in Washington, and 3 in Alaska; razor-clam products, at 5 plants in Washington, 3 in Oregon, and 5 in Alaska; and coquina-clam products, at 1 plant in Florida.

PACK OF CANNED SHRIMP: STANDARD CASES

State	Dry pack (in tins)		Wet pack (in tins)		Wet pack (in glass)		Total	
	Cases	*Value*	*Cases*	*Value*	*Cases*	*Value*	*Cases*	*Value*
Georgia	17, 630	$97, 747	86, 021	$467, 102	14, 849	$139, 640	118, 500	$704, 489
Florida	6, 904	35, 534	27, 838	149, 945	12, 697	117, 305	47, 439	302, 784
Alabama	(19)	(19)	42, 471	226. 826			42, 471	226, 826
Mississippi	65, 109	357. 458	247, 042	1, 306, 493			312, 151	1, 663, 951
Louisiana	196, 089	1, 107, 698	481, 336	2, 522, 483	(20)	(20)	677, 425	3, 630, 181
Texas	[19] 10, 751	[19] 62, 665	49, 224	281, 485	[20] 28, 394	[20] 258, 070	88, 369	602, 220
Alaska			51	296			51	296
Total	296, 483	1, 661, 102	933, 983	4, 954, 630	55, 940	515, 015	1, 286, 406	7, 130, 747

PACK OF CANNED SHRIMP: ACTUAL CASES

Size	Cases	Value	Size	Cases	Value
In tins, dry:			In glass, wet:		
4-ounce (48 cans)	8, 105	$34, 787	2½-ounce (48 cans)	26, 537	$124, 114
5-ounce (48 cans)	263, 225	1, 464, 237	4-ounce (24 cans)	8, 876	31, 697
8¼-ounce (24 cans)	29, 315	147, 516	5¾-ounce (24 cans)	39, 115	173, 384
Other sizes (standard cases)	2, 589	14, 562	6-ounce (24 cans)	41, 709	185, 820
In tins, wet:			Total		7, 130, 747
5¾-ounce (48 cans)	930, 937	4, 934, 779			
9¾-ounce (24 cans)	3, 352	17, 670			
Other sizes (standard cases)	205	2, 181			

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[19] The dry pack of shrimp for Alabama has been included with Texas.

[20] The pack of shrimp in glass for Louisiana has been included with Texas.

NOTE.—"Standard cases" represents the various-sized cases converted to the equivalent of 48 5-ounce cans to the case in the dry pack and 48 5¾-ounce cans to the case in the wet pack. Shrimp were canned at 6 plants in Georgia, 6 in Florida, 3 in Alabama, 15 in Mississippi, 27 in Louisiana, 3 in Texas. and 1 in Alaska.

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PACK OF MISCELLANEOUS CANNED FISHERY PRODUCTS: STANDARD CASES

Product	Atlantic and Gulf Coasts [21]		Pacific Coast (including Alaska)		Total	
	Cases	*Value*	*Cases*	*Value*	*Cases*	*Value*
Shad			9, 219	$30, 554	9, 219	$30, 554
Shad roe			1, 891	49, 868	1, 891	49, 868
Cat and dog food	187, 732	$292, 221	189, 309	548, 086	377, 041	840, 307
Fish flakes [22]	39, 880	353, 071			39, 880	353, 071
Fish cakes, balls, etc	109, 285	754, 770			109, 285	754, 770
Fish paste	[23] 3, 696	[23] 137, 624	(23)	(23)	3, 696	137, 624
Sturgeon caviar	3, 053	435, 370			3, 053	435, 370
Whitefish roe and caviar	1, 332	49, 395			1, 332	49, 395
Salmon roe and caviar (for food)	1, 534	36, 001			1, 534	36, 001
Salmon eggs (for bait)			5, 349	85, 398	5, 349	85, 398
Miscellaneous fish and roe [24]	10, 319	92, 684	875	8, 902	11, 194	101, 586
Crabs	(25)	(25)	[25] 13, 697	[25] 269, 699	13, 697	269, 699
Oyster soup	32, 961	182, 518			32, 961	182, 518
Terrapin products	136	8, 715			136	8, 715
Turtle products	5, 824	73, 737			5, 824	73, 737
Miscellaneous shellfish, etc.[26]	[27] 6, 581	[27] 51, 130	(27)	(27)	6, 581	51, 130
Total	402, 333	2, 467, 236	220, 340	992, 507	622, 673	3, 459, 743

[21] Includes the production of whitefish caviar by 1 firm in Wisconsin.

[22] Tuna flakes are not included in this table, but are included in the table for canned tuna and tunalike fishes.

[23] The production of 1 firm in Washington is included with the production for the Atlantic and Gulf coasts.

[24] Includes salted cod, pickled eels, finnan haddie, fish bouillon, fish chowder, haddock chowder, fish prepared for poisoning rats, kippered salmon, kippered sturgeon, groundfish roe, and tuna roe.

[25] The production of hard crabs by 1 firm in Virginia and of soft crabs by 1 firm in Louisiana is included with the production for the Pacific coast.

[26] Includes clam cakes, crab and shrimp gumbo, fresh-water crayfish, frog and frog's legs, pickled mussels, shrimp soup, and squid.

[27] The production of squid by 1 firm in California is included with the production for the Atlantic and Gulf coasts.

NOTE.—"Standard cases" represents the various-sized cases converted to the equivalent of 48 1-pound cans to the case. Shad were canned at 9 plants; shad roe, at 8 plants; cat and dog food, at 9 plants; fish flakes, at 4 plants; fish cakes, balls, etc., at 8 plants; fish paste, at 4 plants; sturgeon caviar, at 4 plants; whitefish roe and caviar, at 5 plants; salmon roe and caviar (for food), at 4 plants; salmon eggs (for bait), at 10 plants; miscellaneous fish and roe, at 15 plants; crabs, at 18 plants; oyster soup, at 3 plants; terrapin products, at 4 plants; turtle products, at 3 plants; and miscellaneous shellfish, etc., at 9 plants.

PRODUCTION OF OYSTER AND MARINE CLAM-SHELL PRODUCTS [28]

State	Crushed shell for poultry feed		Shell lime		Total	
	Tons	*Value*	*Tons*	*Value*	*Tons*	*Value*
Rhode Island, Connecticut, New York, and Delaware	2, 133	$20, 801	481	$2, 045	2, 614	$22, 846
New Jersey	4, 441	35, 174	1, 763	8, 359	6, 204	43, 533
Pennsylvania	4, 294	38, 969	1, 109	4, 533	5, 403	43, 502
Maryland	37, 621	171, 855	29, 180	52, 190	66, 801	224, 045
Virginia	19, 377	113, 395	[29] 31, 441	[29] 201, 201	50, 818	314, 596
North Carolina, South Carolina, and Florida	47, 462	239, 642	5, 816	19, 710	53, 278	259, 352
Alabama, Louisiana, and Texas	138, 433	427, 481	11, 892	43, 297	150, 325	470, 778
Mississippi	17, 045	62, 397	2, 945	4, 274	19, 990	66, 671
Washington and Oregon	8, 115	73, 555	3, 263	20, 059	11, 378	93, 614
California	14, 402	67, 533	1, 505	6, 377	15, 907	73, 910
Total	293, 323	1, 250, 802	89, 395	362, 045	382, 718	1, 612, 847

[28] The production in Washington includes both clam- and oyster-shell products.

[29] Of this amount 13,098 tons, valued at $89,119, were reported as "burned" lime.

NOTE.—The above crushed-shell products were prepared at 2 plants in Rhode Island, 1 in Connecticut, 1 in New York, 6 in New Jersey, 4 in Pennsylvania, 1 in Delaware, 4 in Maryland, 9 in Virginia, 3 in North Carolina, 1 in South Carolina, 2 in Florida, 1 in Alabama, 3 in Mississippi, 1 in Louisiana, 2 in Texas, 7 in Washington, 1 in Oregon, and 5 in California.

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PRODUCTION OF FRESH-WATER MUSSEL-SHELL PRODUCTS

Item	Iowa, Missouri, and Wisconsin		New York		Total	
	Quantity	*Value*	*Quantity*	*Value*	*Quantity*	*Value*
Pearl buttons gross	12, 960, 342	$3, 751, 879	4, 185, 307	$981, 039	17, 145, 649	$4, 732, 918
Crushed shell for poultry feed tons	4, 450	27, 427			4, 450	27, 427
Lime do	[30] 1, 026	[30] 1, 448	(30)	(30)	1, 026	1, 448
Other products [31]		29, 412				29, 412
Total		3, 810, 166		981, 039		4, 791, 205

[30] A small amount of lime produced in New York has been combined with a production in Iowa.
[31] Includes mussel-shell chips and novelties produced in Iowa.

NOTE.—Mussel shells purchased during the year amounted to 53,988,000 pounds, valued at $829,524. Shells were taken in 17 States in the Mississippi River Valley and Great Lakes region. The producing States in order of their importance, were Arkansas, which contributed 28 percent of the total quantity; Tennessee, 21 percent; Illinois, 13 percent; Kentucky, 12 percent; Indiana, 10 percent; Alabama, Iowa, Michigan, Mississippi, Texas, and Wisconsin, each 2 percent; Minnesota, Missouri, and Oklahoma, each 1 percent, and Louisiana, Ohio, and South Dakota each less than 1 percent.

PRODUCTION OF MARINE PEARL-SHELL PRODUCTS [32]

Item	Massachusetts, Rhode Island, and Connecticut		New York		New Jersey	
	Gross	*Value*	*Gross*	*Value*	*Gross*	*Value*
Pearl buttons	1, 756, 796	$1, 118, 105	1, 138, 334	$813, 556	1, 646, 622	$1, 254, 165
Novelties [33]		181, 623		113, 500		91, 922
Total		1, 299, 728		927, 056		1, 346, 087

Item	Maine, Pennsylvania, Maryland, and Florida		Oregon and California		Total	
	Gross	*Value*	*Gross*	*Value*	*Gross*	*Value*
Pearl buttons	2, 190, 299	$1, 131, 135			6, 732, 051	$4, 316, 961
Novelties [33]		275, 000		$100, 889		762, 934
Total		1, 406, 135		100, 889		5, 079, 895

[32] Produced principally from imported shells.
[33] Includes knife handles, handles for manicure sets, dolls, lamps, mounted fish decoys, etc.

NOTE.—Marine pearl-shell products were manufactured at 1 plant in Maine, 2 in Massachusetts, 1 in Rhode Island, 7 in Connecticut, 9 in New York, 19 in New Jersey, 1 in Pennsylvania, 1 in Maryland, 16 in Florida, 1 in Oregon, and 2 in California.

FISH UTILIZED AND PRODUCTS OF THE MENHADEN INDUSTRY

State	Menhaden utilized	Products						
		Dry scrap and meal		Acidulated scrap		Oil		Total
	Number	*Tons*	*Value*	*Tons*	*Value*	*Gallons*	*Value*	*Value*
New York, New Jersey, Delaware, and Georgia	224, 392, 000	7, 497	$345, 463	[34] 12. 236	[34] $251, 339	1, 548, 028	$583, 611	$1,180,413
Virginia	199, 556, 000	14, 252	615, 213	(34)	(34)	1, 361, 181	522, 476	1, 137, 689
North Carolina	168, 534, 000	6, 039	256, 312	10, 731	208, 371	839, 598	294, 443	759, 126
Florida	197, 371, 000	8, 013	364, 231	8, 633	158, 394	146, 806	55, 803	578, 428
Total	[35] 789, 853, 000	[36] 35, 801	[36] 1, 581, 219	31, 600	618, 104	3, 895, 613	1, 456, 333	3, 655, 656

[34] The production of 1 firm in Virginia is included with New York, New Jersey, Delaware, and Georgia.
[35] 473,911,800 pounds.
[36] Of this production 22,763 tons, valued at $985,075, were reported as dry scrap, and 13,038 tons, valued at $596,144, as fish meal.

NOTE.—The menhaden factories were located as follows: 1 in New York, 2 in New Jersey, 2 in Delaware, 11 in Virginia, 10 in North Carolina, 1 in Georgia, and 5 in Florida.

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PRODUCTION OF MISCELLANEOUS BYPRODUCTS

Product	Atlantic and Gulf Coasts [37]		Pacific Coast (including Alaska)		Total	
	Quantity	*Value*	*Quantity*	*Value*	*Quantity*	*Value*
Dried scrap:						
Alewife……tons	750	$31, 327			750	$31, 327
Herring……do	1, 452	40, 622			1, 452	40, 622
Blue crab……do	1, 303	26, 629			1, 303	26, 629
King crab……do	535	19, 371			535	19, 371
Miscellaneous [38]……do	1, 252	31, 294			1, 252	31, 294
Meal:						
Groundfish, "white fish" tons	14, 178	396, 995			14, 178	396, 995
Herring (Alaska)……do			18, 816	$629, 269	18, 816	629, 269
Herring (Maine)……do	1, 644	51, 113			1, 644	51, 113
Mackerel……do			2, 194	77, 827	2, 194	77, 827
Pilchard……do			89, 422	3, 325, 282	89, 422	3, 325, 282
Salmon……do			1, 608	49, 356	1, 608	49, 356
Tuna……do			10, 872	378, 531	10, 872	378, 531
King crab……do	25	625			25	625
Shrimp……do	1, 334	30, 573	118	3, 220	1, 452	33, 793
Whale (meat)……do			770	25, 410	770	25, 410
Whale (bone)……do			435	7, 395	435	7, 395
Miscellaneous [39]……do	3, 681	169, 457	1, 867	67, 896	5, 548	237, 353
Oil:						
Alewife……gallons	12, 450	3, 073			12, 450	3, 073
Cod……do	7, 429	2, 889			7, 429	2, 889
Cod-liver……do	275, 802	167, 572			275, 802	167, 572
Fur-seal……do			29, 341	5, 397	29, 341	5, 397
Herring (Alaska)……do			5, 569, 192	2, 105, 341	5, 569, 192	2, 105, 341
Herring (Maine)……do	53, 853	9, 207			53, 853	9, 207
Mackerel……do			80, 811	30, 812	80, 811	30, 812
Pilchard……do			15, 993, 216	6, 203, 616	15, 993, 216	6, 203, 616
Salmon [40]……do			167, 265	94, 122	167, 265	94, 122
Shark……do			9, 880	4, 096	9, 880	4, 096
Tuna……do			141, 963	30, 702	141, 963	30, 702
Whale:						
Sperm……do	5, 837	1, 500	168, 250	45, 832	174, 087	47, 332
Other……do	8, 270, 752	3, 693, 169	781, 450	429, 500	9, 052, 202	4, 122, 669
Liver (other than cod) [41] gallons	34, 777	821, 797	37, 342	1, 214, 728	72, 119	2, 036, 525
Miscellaneous [42]……do	39, 946	15, 241	59, 500	20, 825	99, 446	36, 066
Liquid glue……do	[43] 441, 912	[43] 908, 121	([43])	([43])	441, 912	908, 121
Shark fins……pounds	30, 263	13, 388			30, 263	13, 388
Shark skins……do	138, 058	12, 306			138, 058	12, 306
Miscellaneous byproducts [44]		192, 953		276, 063		469, 016
Total		6, 639, 222		15, 025, 220		21, 664, 442

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[37] Includes the production of burbot-liver oil in Minnesota and Wisconsin.

[38] Includes shark and miscellaneous dry scrap, as well as the production of miscellaneous acid scrap by 1 firm in Virginia.

[39] Includes salmon-egg, shark, starfish, clam, and miscellaneous meals and cod-liver pressings.

[40] Includes a considerable quantity of salmon oil especially prepared for human consumption.

[41] Includes burbot-, halibut-, sablefish-, shark-, swordfish-, and tuna-liver oils.

[42] Includes blackfish, rosefish, and miscellaneous fish oils.

[43] A quantity of liquid glue produced by 1 firm in California is included with the production of liquid glue on the Atlantic and Gulf coasts.

[44] Includes herring and miscellaneous green scrap, isinglass, kelp products, pearl essence, and miscellaneous novelties.

NOTE.—The whale products shown for the Atlantic and Gulf coasts were produced on factory ships operating in the Southern Hemisphere.

FROZEN-FISH TRADE [3]

FISH, FROZEN

During 1937 the output of freezing plants which reported their activities to the Government amounted to 168,223,653 pounds of fishery products. At the time these products were held in cold-storage plants they were estimated to be valued at about $13,500,000. Compared with the output in 1936, this is a decrease of 6 percent in volume. Five species or groups of species accounted for 60 percent of the total amount frozen. In the order of their importance, they were: Cod, haddock, hake, and pollock (including cod, haddock, and pollock fillets), which accounted for 22 percent of the total; whiting, 11 percent; salmon, 10 percent; halibut, 9 percent; and rosefish, 8 percent. Other products frozen in considerable quantity during the year were mackerel, sablefish, and shellfish.

Production of frozen fishery products, 1937

BY SPECIES AND MONTHS

Species	Month ended the 15th of—						
	January	February	March	April	May	June	July
	Pounds	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*
Bluefish (all trade sizes)	129, 710	10, 691	25, 843	8, 367	38, 227	5, 829	2, 387
Butterfish (all trade sizes)	4, 591	2, 888	9, 645	17, 903	19, 917	130, 650	127, 817
Catfish	41, 261	12, 406	15, 894	53, 284	95, 122	47, 791	38, 510
Cisco (Lake Erie)	17, 229	10, 657	--------	3, 237	2, 966	831	18, 751
Cisco (lake herring) including bluefin, blackfin, and chub	424, 485	44, 682	30, 818	48, 242	24, 149	20, 598	90, 424
Cisco (tullibees, Canadian lakes)	15, 610	886	8, 175	8, 529	--------	--------	3, 767
Cod, haddock, hake, and pollock (except fillets of cod, haddock, and pollock)	242, 404	131, 176	153, 559	57, 963	229, 059	302, 382	184, 142
Cod fillets	423, 122	90, 848	125, 495	210, 355	490, 351	781, 764	1, 357, 228
Croaker	8, 308	7, 106	20, 310	17, 059	128, 994	706, 774	732, 860
Flounders	123, 227	30, 631	9, 496	8, 919	156, 332	350, 295	102, 748
Haddock fillets	1, 415, 549	964, 187	1, 399, 388	2, 177, 233	1, 286, 613	1, 825, 201	1, 969, 445
Halibut (all trade sizes)	--------	--------	--------	1, 670, 981	2, 037, 228	3, 461, 509	2, 933, 571
Herring, sea (including alewives and bluebacks)	74, 820	21, 375	114, 770	225, 967	240, 633	165, 350	71, 746
Lake trout	37, 582	12, 508	13, 061	17, 204	35, 002	58, 808	73, 594
Mackerel (except Spanish)	82, 056	48, 023	18, 602	82, 567	173, 358	1, 312, 787	472, 976
Perch, yellow	3, 912	21, 254	2, 169	4, 050	4, 618	3, 322	15, 699
Pike, blue and sauger	69, 759	1, 746	654	33, 606	230, 522	234, 547	37, 909
Pike, yellow or wall-eyed	17, 471	8, 296	32, 966	100, 879	13, 653	66, 065	2, 184
Pike (including pickerel, jacks, and yellow jack)	58, 354	466	2, 873	11, 910	19, 457	5, 959	5, 579
Pollock fillets	1, 258, 586	246, 798	86, 667	177, 052	341, 024	869, 505	713, 480
Rosefish	1, 058, 047	328, 155	61, 255	60, 364	273, 190	2, 063, 708	1, 562, 081
Sablefish (black cod)	40, 336	1, 792	15, 840	7, 065	15, 493	30, 377	93, 613
Salmon, chinook or king	30, 911	21, 918	28, 937	7, 841	43, 356	524, 138	650, 944
Salmon, silver or coho	75, 128	30, 094	48, 505	51, 695	8, 959	159, 526	258, 993
Salmon, fall and pink	21, 536	26, 419	46, 746	8, 232	3, 324	2, 500	4, 805
Salmon, steelhead trout	52, 181	2, 030	22, 164	9, 707	17, 331	8, 438	49, 363
Scup (porgies)	3, 823	3, 023	50	1, 471	13, 088	99, 062	147, 269
Shad and shad roe	33, 826	5, 979	1, 277	36, 802	201, 954	175, 860	19, 582
Shellfish	352, 823	436, 509	278, 442	191, 068	1, 352, 625	1, 448, 401	1, 693, 962
Smelts, eulachon, etc	305, 624	181, 843	210, 916	52, 056	148, 601	9, 557	10, 596
Squid	61, 530	11, 970	2, 529	547	622, 949	2, 687, 378	187, 064
Sturgeon and spoonbill cat	2, 218	2, 283	17, 547	7, 217	23, 232	20, 279	16, 319
Suckers	3, 183	--------	--------	4, 479	20, 306	30, 801	12, 296
Swordfish	12, 536	29, 045	18, 099	335, 820	97, 079	32, 065	65, 409
Weakfish (including southern "sea trout")	11, 896	147	1, 103	1, 605	11, 118	144, 127	215, 861
Whitefish	119, 493	171, 590	142, 137	224, 577	51, 534	17, 604	127, 377
Whiting	74, 905	65, 354	68, 439	34, 137	259, 042	4, 113, 707	5, 253, 170
Miscellaneous fish	1, 373, 267	967, 907	1, 159, 787	1, 547, 260	1, 614, 064	2, 258, 681	1, 645, 702
Total	8, 081, 299	3, 952, 682	4, 194, 158	7, 517, 250	10, 344, 470	24, 176, 176	20, 969, 223

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[3] The statistics in this section have been furnished by the Bureau of Agricultural Economics, Department of Agriculture.

Production of frozen fishery products, 1937—Continued

BY SPECIES AND MONTHS

Species	Month ended the 15th of—					
	August	September	October	November	December	Total
	Pounds	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*
Bluefish (all trade sizes)	40, 478	95, 975	139, 518	69, 746	192, 890	759, 661
Butterfish (all trade sizes)	271, 346	74, 247	142, 812	38, 572	68, 692	909, 080
Catfish	22, 598	27, 796	18, 416	41, 528	66, 493	481, 099
Cisco (Lake Erie)	24, 556	6, 724	7, 211	41, 288	123, 386	256, 836
Cisco (lake herring) including bluefin, blackfin, and chub	186, 072	136, 194	152, 579	886, 059	905, 338	2, 949, 640
Cisco (tullibees, Canadian lakes)	4, 219	907	673	4, 982	----------	47, 748
Cod, haddock, hake, and pollock (except fillets of cod, haddock, and pollock)	155, 603	291, 017	265, 369	219, 780	138, 110	2, 370, 564
Cod fillets	849, 950	489, 905	545, 605	537, 809	519, 905	6, 422, 337
Croaker	365, 706	30, 563	2, 910	6, 051	2, 800	2, 029, 441
Flounders	50, 763	28, 532	98, 388	172, 428	109, 591	1, 241, 350
Haddock fillets	2, 201, 569	2, 183, 846	2, 651, 580	701, 844	799, 541	19, 575, 996
Halibut (all trade sizes)	2, 642, 500	937, 834	857, 596	1, 183, 568	----------	15, 724, 787
Herring, sea (including alewives and bluebacks)	150, 768	72, 793	1, 209, 608	1, 003, 345	342, 897	3, 694, 072
Lake trout	64, 909	46, 707	125, 310	145, 027	102, 530	732, 242
Mackerel (except Spanish)	866, 361	279, 026	491, 619	541, 806	1, 117, 264	5, 486, 445
Perch, yellow	26, 868	20, 380	24, 327	98, 978	21, 394	246, 971
Pike, blue and sauger	40, 156	3, 529	39, 590	85, 259	46, 893	824, 170
Pike, yellow or wall-eyed	16, 165	11, 994	27, 510	10, 621	19, 408	327, 212
Pike (including pickerel, jacks, and yellow jack)	7, 397	4, 058	14, 638	48, 684	21, 208	200, 583
Pollock fillets	497, 535	248, 965	299, 955	1, 015, 891	2, 905, 778	8, 661, 236
Rosefish	1, 734, 696	1, 315, 507	1, 039, 604	1, 979, 754	1, 540, 725	13, 017, 086
Sablefish (black cod)	501, 321	980, 548	989, 691	1, 135, 517	196, 526	4, 008, 119
Salmon, chinook or king	724, 524	996, 946	1, 204, 093	421, 832	78, 096	4, 733, 536
Salmon, silver or coho	959, 621	2, 302, 266	1, 777, 241	878, 363	20, 551	6, 570, 942
Salmon, fall and pink	280, 757	201, 296	534, 274	3, 621, 504	404, 727	5, 156, 120
Salmon, steelhead trout	244, 935	217, 555	66, 507	32, 312	40, 649	763, 172
Scup (porgies)	35, 031	83, 783	11, 205	2, 051	1, 269	401, 125
Shad and shad roe	2, 707	1, 896	302	19, 540	55, 813	555, 538
Shellfish	901, 253	1, 374, 779	1, 230, 023	1, 950, 765	993, 993	12, 204, 643
Smelts, eulachon, etc	18, 472	31, 155	49, 242	75, 637	149, 068	1, 242, 767
Squid	77, 449	116, 586	7, 841	8, 217	13, 763	3, 797, 823
Sturgeon and spoonbill cat	11, 425	10, 073	18, 863	16, 551	43, 815	189, 822
Suckers	8, 669	310	1, 168	10, 379	131, 845	223, 436
Swordfish	80, 776	115, 065	83, 831	154, 519	826, 259	1, 850, 503
Weakfish (including southern "sea trout")	163, 641	546, 968	626, 203	157, 328	53, 209	1, 933, 206
Whitefish	47, 495	24, 890	64, 246	47, 536	76, 696	1, 115, 175
Whiting	915, 505	740, 206	2, 627, 975	1, 632, 245	1, 934, 560	17, 719, 245
Miscellaneous fish	1, 653, 613	1, 666, 927	1, 731, 265	1, 931, 256	2, 250, 196	19, 799, 925
Total	16, 847, 409	15, 717, 748	19, 178, 788	20, 928, 572	16, 315, 878	168, 223, 653

BY GEOGRAPHICAL SECTIONS AND SPECIES[1]

[Expressed in thousands of pounds; that is, 000 omitted]

Species	New England	Middle Atlantic	South Atlantic	North Central, East	North Central, West	South Central	Pacific	Total
Bluefish (all trade sizes)	31	683	7	37	--------	3	--------	761
Butterfish (all trade sizes)	303	586	19	--------	1	1	--------	910
Catfish	158	2	49	74	160	38	--------	481
Cisco (Lake Erie)	3	251	3	--------	--------	--------	--------	257
Cisco (lake herring) including, bluefin, blackfin, and chub	11	523	--------	1, 661	756	--------	--------	2, 951
Cisco (tullibees, Canadian lakes)	8	31	--------	8	--------	--------	--------	47
Cod, haddock, hake, and pollock (except fillets of cod, haddock, and pollock)	987	146	2	123	6	781	326	2, 371
Cod fillets	6, 221	8	--------	106	50	--------	37	6, 422

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[1] New England includes the 6 States of that section; Middle Atlantic—New York, New Jersey, and Pennsylvania; South Atlantic—Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, and Florida; North Central, East—Ohio, Indiana, Illinois, Michigan, and Wisconsin; North Central, West—Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, and Kansas; South Central—Kentucky, Tennessee, Alabama, Mississippi, Louisiana, Texas, Oklahoma, and Arkansas; and Pacific—Washington, Oregon, California, and Alaska.

Production of frozen fishery products, 1937—Continued

BY GEOGRAPHICAL SECTIONS AND SPECIES—Continued

[Expressed in thousands of pounds; that is, 000 omitted]

Species	New England	Middle Atlantic	South Atlantic	North Central, East	North Central, West	South Central	Pacific	Total
Croaker	--------	368	1,601	56	--------	4	--------	2,029
Flounders	333	685	2	1	--------	2	218	1,241
Haddock fillets	19,263	55	22	205	5	--------	26	19,576
Halibut (all trade sizes)	225	307	3	188	28	12	14,960	15,723
Herring, sea (including alewives and bluebacks)	2,157	363	24	464	1	6	679	3,694
Lake trout	20	237	15	359	82	11	9	733
Mackerel (except Spanish)	3,756	1,327	83	85	--------	--------	236	5,487
Perch, yellow	--------	8	18	168	53	--------	--------	247
Pike, blue and sauger	--------	410	--------	413	1	--------	--------	824
Pike, yellow or wall-eyed	--------	202	66	37	23	--------	--------	328
Pike (including pickerel, jacks, and yellow jack)	--------	16	--------	51	133	--------	--------	200
Pollock fillets	8,607	--------	--------	51	2	--------	--------	8,660
Rosefish	12,953	--------	2	62	--------		--------	13,017
Sablefish (black cod)	--------	10	--------	6	41	--------	3,951	4,008
Salmon, chinook or king	68	390	2	41	4	--------	4,230	4,735
Salmon, silver or coho	44	218	--------	14	8	1	6,285	6,570
Salmon, fall and pink	--------	52	--------	16	42	3	5,042	5,155
Salmon, steelhead trout	--------	34	41	--------	--------	--------	688	763
Scup (porgies)	40	346	15	--------	--------	--------	--------	401
Shad and shad roe	44	375	1	14	--------	2	119	555
Shellfish	1,228	4,105	335	1,182	526	2,253	2,578	12,207
Smelts, eulachon, etc	33	896	11	204	--------	2	96	1,242
Squid	1,976	1,799	--------	3	--------	--------	20	3,798
Sturgeon and spoonbill cat	--------	150	2	7	22	6	3	190
Suckers	--------	2	140	72	10	--------	--------	224
Swordfish	552	866	6	4	--------	--------	422	1,850
Weakfish (including southern "sea trout")	--------	1,620	312	--------	--------	--------	--------	1,932
Whitefish	93	679	12	130	126	74	2	1,116
Whiting	14,556	2,229	18	136	186	595	--------	17,720
Miscellaneous fish	6,102	2,866	2,483	2,472	846	880	4,150	19,799
Total	79,772	22,845	5,294	8,450	3,112	4,674	44,077	168,224

BY GEOGRAPHICAL SECTIONS AND MONTHS[1]

[Expressed in thousands of pounds; that is, 000 omitted]

Month ended the 15th of—	New England	Middle Atlantic	South Atlantic	North Central, East	North Central, West	South Central	Pacific	Total
January	4,476	1,548	145	921	390	137	464	8,081
February	1,778	887	193	401	83	202	409	3,953
March	1,857	1,118	160	198	54	247	560	4,194
April	2,970	1,077	404	244	214	193	2,415	7,517
May	3,782	1,453	274	1,059	308	687	2,782	10,345
June	13,125	3,307	1,111	968	276	601	4,788	24,176
July	12,427	2,180	1,129	437	161	300	4,335	20,969
August	8,282	1,422	558	410	144	267	5,764	16,847
September	6,366	1,807	218	358	76	452	6,441	15,718
October	9,386	1,953	110	490	207	511	6,522	19,179
November	7,450	1,989	249	1,853	456	787	8,145	20,929
December	7,873	4,104	743	1,111	743	290	1,452	16,316
Total	79,772	22,845	5,294	8,450	3,112	4,674	44,077	168,224

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[1] New England includes the 6 States of that section; Middle Atlantic—New York, New Jersey, and Pennsylvania; South Atlantic—Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, and Florida; North Central, East—Ohio, Indiana, Illinois, Michigan, and Wisconsin; North Central, West—Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, and Kansas; South Central—Kentucky, Tennessee, Alabama, Mississippi, Louisiana, Texas, Oklahoma, and Arkansas; and Pacific—Washington, Oregon, California, and Alaska.

HOLDINGS

During 1937 monthly holdings of frozen fish and shellfish averaged 63,810,000 pounds, which is an increase of 3 percent as compared with 1936. The holdings during January were the largest, amounting to 87,576,000 pounds. In only two other months did the holdings exceed 75,000,000 pounds. These were November and December. The holdings were the smallest during May, when only 40,589,000 pounds of fishery products were in storage.

Holdings of frozen fishery products, 1937

BY SPECIES AND MONTHS

Species	Month ended the 15th of—					
	January	February	March	April	May	June
	Pounds	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*
Bluefish (all trade sizes)	810, 280	539, 787	342, 293	195, 858	181, 838	102, 542
Butterfish (all trade sizes)	545, 192	382, 537	263, 376	234, 160	198, 201	293, 526
Catfish	438, 615	390, 176	313, 252	222, 588	285, 035	261, 795
Cisco (Lake Erie)	52, 447	28. 582	13, 598	1, 618	3, 194	507
Cisco (lake herring) including bluefin, blackfin, and chub	2, 295, 104	1, 399, 151	1, 032, 215	741, 910	542, 827	422, 737
Cisco (tullibees, Canadian lakes)	58, 722	42, 798	20, 890	18, 330	13, 973	6, 960
Cod, haddock, hake, and pollock (except fillets of cod, haddock and pollock)	1, 517, 789	1, 386, 136	1, 207, 778	1, 010, 675	1, 076, 465	1, 137, 679
Cod fillets	1, 761, 024	1, 542, 593	1, 416, 356	1, 433, 564	1, 582, 340	1, 933, 948
Croaker	581, 183	292, 758	202, 234	90, 096	155, 734	853, 457
Flounders	500, 265	451, 340	339, 875	196, 651	293, 544	585, 516
Haddock fillets	6, 451, 855	5, 305, 233	4, 202, 735	4, 761, 832	4, 012, 604	4, 178, 301
Halibut (all trade sizes)	7, 162, 435	3, 995, 348	1, 727, 970	2, 827, 455	4, 653, 031	8, 007, 777
Herring, sea (including alewives and bluebacks)	2, 182, 903	1, 368, 568	881, 760	777, 488	790, 393	731, 931
Lake trout	683, 614	473, 394	290, 180	194, 445	341, 448	208, 443
Mackerel (except Spanish)	4, 193, 907	2, 784, 937	1, 662, 424	762, 887	441, 465	1, 729, 468
Perch, yellow	144, 236	148, 180	111, 494	71, 793	69, 214	70, 640
Pike, blue and sauger	733, 081	703, 306	481, 563	543, 353	715, 963	849, 013
Pike, yellow or wall-eyed	302, 731	345, 565	284, 601	217, 270	225, 326	303, 657
Pike (including pickerel, jacks and yellow jack)	191, 014	265, 799	265, 529	246, 242	245, 952	213, 429
Pollock fillets	6, 314, 471	5, 209, 655	4, 414, 102	3, 622, 482	2, 763, 090	1, 344, 440
Rosefish	4, 083, 486	4, 012, 141	2, 571, 281	1, 095, 830	406, 449	1, 433, 229
Sablefish (black cod)	1, 451, 216	885, 550	297, 691	275, 054	153, 916	78, 199
Salmon, chinook or king	3, 366, 581	2, 555, 271	1, 811, 020	1, 247, 883	938, 828	999, 425
Salmon, silver or coho	3, 017, 576	1, 983, 502	978, 508	322, 889	175, 935	288, 363
Salmon, fall and pink	2, 375, 664	1, 656, 469	902, 604	622, 057	402, 366	298, 969
Salmon, steelhead trout	648, 022	529, 576	411, 195	363, 120	199, 510	107, 144
Scup (porgies)	542, 023	396, 051	270, 817	159, 801	146, 219	149, 537
Shad and shad roe	451, 525	361, 945	255, 310	187, 754	364, 570	512, 922
Shellfish	3, 450, 334	2, 561, 445	1, 892, 351	1, 261, 455	2, 019, 117	2, 399, 640
Smelts, eulachon, etc	1, 497, 328	1, 496, 831	1, 640, 522	1, 125, 545	1, 083, 661	1, 015, 825
Squid	556, 099	362, 009	155, 044	57, 302	627, 750	3, 211, 773
Sturgeon and spoonbill cat	154, 364	126, 589	91, 761	113, 197	121, 220	119, 730
Suckers	105, 069	84, 113	71, 724	64, 922	78, 957	657, 853
Swordfish	924, 685	1, 027, 883	971, 052	1, 328, 992	1, 053, 649	106, 690
Weakfish (including southern "sea trout")	537, 876	358, 334	204, 380	76, 612	41, 445	178, 747
Whitefish	796, 129	939, 363	1, 133, 660	1, 077, 267	876, 730	820, 062
Whiting	15, 743, 711	13, 616, 798	11, 127, 317	9, 045, 811	6, 984, 907	6, 128, 091
Miscellaneous fish	10, 953, 584	9, 618, 910	7, 327, 551	6, 360, 440	6, 322, 627	6, 436, 047
Total	87, 576, 140	69, 628, 623	51, 588, 013	42, 956, 628	40, 589, 493	48, 178, 012

Species	Month ended the 15th of—					
	July	August	September	October	November	December
	Pounds	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*
Bluefish (all trade sizes)	47, 556	63, 440	131, 025	250, 854	246, 791	370, 873
Butterfish (all trade sizes)	378, 868	617, 823	630, 306	694, 834	659, 016	610, 224
Catfish	251, 674	202, 539	230, 111	231, 110	226, 461	305, 107
Cisco (Lake Erie)	19, 258	40, 178	44, 627	46, 532	80, 586	191, 250
Cisco (lake herring) including bluefin, blackfin, and chub	443, 535	548, 195	603, 400	637, 452	1, 321, 329	1, 878, 276
Cisco (tullibees, Canadian lakes)	10, 517	27, 103	26, 680	23, 863	16, 062	19. 953
Cod, haddock, hake, and pollock (except fillets of cod, haddock and pollock)	1, 081, 167	1, 062, 614	1, 087, 493	1, 138, 169	1, 148, 212	1, 098, 207
Cod fillets	2, 767, 458	2, 995, 020	2, 955, 158	2, 620, 176	2, 408, 785	2, 517, 811
Croaker	1, 567, 547	1, 897, 810	1, 722, 397	1, 390, 388	1, 030, 521	834, 338
Flounders	642, 476	577, 623	498, 910	528, 488	603, 446	597, 541
Haddock fillets	5, 653, 334	6, 783, 907	7, 323, 162	8, 197, 526	7, 090, 766	6, 716, 962
Halibut (all trade sizes)	10, 789, 294	13, 130, 489	13, 187, 982	11, 607, 849	10, 144, 263	8, 329, 821
Herring, sea (including alewives and bluebacks)	656, 462	683, 688	512, 460	1, 322, 766	1, 879, 798	1, 978, 147
Lake trout	227, 797	243, 157	257, 141	345, 098	538, 818	505, 385
Mackerel (except Spanish)	1, 927, 864	2, 342, 935	1, 953, 702	2, 049, 734	2, 318, 949	3, 406, 190
Perch, yellow	89, 071	71, 244	113, 943	146, 182	248, 723	268, 701
Pike, blue and sauger	519, 750	304, 492	114, 035	127, 216	183, 675	153, 012
Pike, yellow or wall-eyed	295, 669	284, 896	267, 290	265, 744	241, 814	168, 451

Holdings of frozen fishery products, 1937—Continued

BY SPECIES AND MONTHS—Continued

Species	Month ended the 15th of—					
	July	August	September	October	November	December
	Pounds	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*
Pike (including pickerel, jacks and yellow jack)	207, 195	173, 264	125, 522	134, 477	207, 730	161, 230
Pollock fillets	1, 243, 381	1, 447, 204	1, 399, 307	880, 730	1, 171, 046	3, 514, 939
Rosefish	1, 929, 090	2, 387, 429	2, 243, 633	1, 277, 185	1, 923, 722	2, 501, 849
Sablefish (black cod)	168, 687	585, 166	1, 362, 832	2, 103, 128	2, 623, 682	2, 603, 741
Salmon, chinook or king	1, 324, 843	1, 812, 102	2, 505, 680	3, 422, 598	3, 626, 721	3, 297, 136
Salmon, silver or coho	416, 730	1, 285, 194	3, 425, 746	4, 603, 651	4, 902, 863	4, 216, 260
Salmon, fall and pink	256, 963	418, 761	561, 197	994, 721	4, 238, 583	4, 159, 631
Salmon, steelhead trout	116, 872	295, 815	442, 921	422, 343	381, 112	345, 544
Scup (porgies)	288, 387	316, 522	511, 566	462, 850	404, 042	306, 220
Shad and shad roe	499, 475	460, 433	461, 951	409, 307	422, 186	406, 243
Shellfish	3, 425, 101	3, 380, 792	4, 038, 639	4, 476, 255	5, 940, 926	5, 974, 142
Smelts, eulachon, etc	993, 860	952, 520	960, 680	889, 125	820, 592	743, 214
Squid	3, 098, 966	2, 939, 707	2, 713, 533	2, 488, 398	2, 380, 649	2, 043, 712
Sturgeon and spoonbill cat	106, 106	97, 291	132, 155	165, 338	155, 235	147, 233
Suckers	115, 493	119, 596	114, 202	107, 793	101, 008	202, 586
Swordfish	490, 452	576, 253	492, 903	398, 456	486, 810	1, 092, 329
Weakfish (including southern "sea trout")	356, 364	482, 500	967, 971	1, 513, 683	1, 571, 359	1, 309, 574
Whitefish	927, 883	969, 608	1, 062, 131	1, 072, 810	1, 008, 777	998, 420
Whiting	9, 186, 626	8, 610, 157	6, 856, 765	7, 415, 319	7, 083, 245	7, 562, 193
Miscellaneous fish	6, 807, 730	7, 016, 559	7, 282, 190	7, 487, 452	8, 263, 974	8, 354, 863
Total	59, 329, 501	66, 204, 026	69, 321, 346	72, 349, 600	78, 102, 277	79, 891, 308

BY GEOGRAPHICAL SECTIONS AND MONTHS[1]

[Expressed in thousands of pounds; that is, 000 omitted]

Month ended the 15th of—	New England	Middle Atlantic	South Atlantic	North Central, East	North Central, West	South Central	Pacific[2]	Total
January	34, 652	12, 684	2, 707	13, 701	7, 142	872	15, 818	87, 576
February	28, 707	11, 163	2, 187	11, 027	5, 782	649	10, 114	69, 629
March	22, 524	9, 250	1, 441	7, 867	4, 470	498	5, 538	51, 588
April	18, 758	7, 015	1, 096	6, 349	3, 520	396	5, 823	42, 957
May	15, 348	6, 994	971	6, 267	3, 369	642	6, 998	40, 589
June	17, 131	7, 605	2, 024	6, 908	3, 498	621	10, 391	48, 178
July	23, 034	8, 775	3, 031	6, 631	3, 873	502	13, 484	59, 330
August	24, 558	8, 914	3, 621	6, 400	4, 471	469	17, 771	66, 204
September	21, 468	10, 081	3, 429	6, 894	4, 379	578	22, 492	69, 321
October	21, 562	11, 225	3, 075	7, 078	4, 468	717	24, 225	72, 350
November	21, 519	12, 563	2, 714	8, 686	5, 146	1, 017	26, 457	78, 102
December	23, 719	14, 692	2, 934	8, 881	5, 714	915	23, 036	79, 891
Average	22, 748	10, 080	2, 436	8, 058	4, 653	656	15, 179	63, 810

[1] New England includes the 6 States of that section; Middle Atlantic—New York, New Jersey, and Pennsylvania; South Atlantic—Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, and Florida; North Central, East—Ohio, Indiana, Illinois, Michigan, and Wisconsin; North Central, West—Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, and Kansas; South Central—Kentucky, Tennessee, Alabama, Mississippi, Louisiana, Texas, Oklahoma, and Arkansas; and Pacific—Washington, Oregon, California, and Alaska.

[2] Includes a small amount of fish held in Colorado in the Mountain section.

COLD-STORAGE HOLDINGS OF CURED FISH

During 1937 monthly cold-storage holdings of cured herring and mild-cured salmon averaged 22,918,000 pounds, which is an increase of 7 percent as compared with the average monthly holdings in 1936. The holdings during January were the largest, amounting to 26,097,617 pounds, and the smallest were in December, amounting to 17,299,938 pounds.

Holdings of cured fish, 1937, by species and months

Month ended the 15th of—	Cured herring	Mild-cured salmon	Total
	Pounds	*Pounds*	*Pounds*
January	18, 001, 751	8, 095, 866	26, 097, 617
February	18, 330, 859	5, 707, 047	24, 037, 906
March	17, 404, 805	4, 955, 148	22, 359, 953
April	18, 033, 069	4, 016, 397	22, 049, 466
May	22, 422, 267	3, 133, 848	25, 556, 115
June	20, 598, 513	3, 514, 453	24, 112, 966
July	18, 689, 631	4, 720, 282	23, 409, 913
August	17, 626, 521	5, 964, 964	23, 591, 485
September	16, 954, 488	7, 787, 570	24, 742, 058
October	14, 913, 228	7, 210, 858	22, 124, 086
November	12, 909, 212	6, 730, 592	19, 639, 804
December	10, 966, 065	6, 333, 873	17, 299, 938

FOREIGN FISHERY TRADE

The foreign trade in fishery products of the United States in 1937 amounted to $65,202,767, of which $50,635,515 represents the value of these products imported for consumption, and $14,567,252, the value of exports of domestic fishery products. Compared with the previous year, there was an increase of 18 percent in total trade, 21 percent in the value of the imports, and 10 percent in the value of exports.

Imports consisted of 364,668,145 pounds of edible products, valued at $33,910,738, and nonedible products, valued at $16,724,777. Fishery exports consisted of 119,067,718 pounds of edible products, valued at $13,729,441, and nonedible products, valued at $837,811.

Import duties levied on fishery products imported during 1937 totaled $8,253,677.

Exports of domestic fishery products, 1937 [1]

Item	Quantity	Value
EDIBLE FISHERY PRODUCTS		
Fish, fresh, frozen, or packed in ice:		
Salmon ... pounds	3, 394, 435	$457, 286
Other ... do	1, 216, 599	130, 348
Total ... do	4, 611, 034	587, 634
Fish, salted, pickled, or dry-cured.		
Salmon ... do	2, 232, 563	386, 974
Cod, haddock, hake, pollock, cusk ... do	1, 714, 987	119, 563
Herring ... do	1, 710, 001	66, 537
Other ... do	1, 000, 568	51, 009
Total ... do	6, 658, 119	624, 083
Fish, smoked or kippered ... do	301, 355	41, 317
Fish, canned:		
Salmon ... do	37, 978, 553	6, 654, 801
Sardines ... do	51, 998, 236	3, 461, 855
Mackerel ... do	669, 739	43, 569
Other ... do	418, 041	76, 120
Total ... do	91, 064, 569	10, 236, 345
Shellfish, not canned:		
Oysters, fresh, in the shell ... do	4, 523, 747	162, 660
Oysters, fresh, shucked, frozen, or in ice ... do	1, 732, 035	261, 261
Shrimp fresh, frozen, or in ice ... do	2, 715, 297	345, 896

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[1] These statistics have been furnished by the Bureau of Foreign and Domestic Commerce, Department of Commerce.

Exports of domestic fishery products, 1937 —Continued

Item	Quantity	Value
EDIBLE FISHERY PRODUCTS—continued		
Shellfish, not canned—Continued.		
Shrimp, dried ... pounds	1, 459, 643	$275, 325
Other shellfish, fresh, frozen, or in ice, or dried ... do	229, 048	28, 501
Total ... do	10, 659, 770	1, 073, 643
Shellfish, canned:		
Shrimp ... do	4, 562, 962	911, 322
Other ... do	967, 288	169, 755
Total ... do	5, 530, 250	1, 081, 077
Other fish products ... do	242, 621	85, 342
Total edible products ... do	119, 067, 718	13, 729, 441
NONEDIBLE FISHERY PRODUCTS		
Marine-animal oils ... do	1, 949, 014	304, 298
Sponges ... do	54, 686	72, 603
Fish meal for feed ... tons	1, 051	42, 525
Furs, fur-seal, dressed ... number	2, 867	67, 529
Oyster shells ... tons	53, 320	350, 856
Total nonedible products		837, 811
Grand total		14, 567, 252

Imports of fishery products entered for consumption, 1937 [1]

Item	Pounds	Value
EDIBLE FISHERY PRODUCTS		
Fish, fresh or frozen:		
Whole or beheaded, or eviscerated, or both:		
Fresh-water fish, not elsewhere specified:		
Whitefish	12, 252, 325	$1, 575, 535
Yellow pike	9, 034, 990	814, 369
Jacks or grass pike	3, 352, 137	172, 215
Lake trout	4, 754, 041	552, 830
Yellow perch	2, 037, 064	162, 374
Tullibees	580, 015	44, 385
Lake herring and ciscoes	1, 373, 017	171, 762
Chubs	1, 174, 251	157, 449
Mullet *(catostomus)*	691, 250	35, 679
Saugers	8, 152, 080	427, 918
Fresh-water fish, not elsewhere specified	12, 189, 192	761, 981
Eels	817, 332	61, 358
Salmon	6, 616, 373	592, 394
Cod, haddock, hake, pollock, and cusk	1, 660, 963	77, 064
Halibut:		
Fresh	4, 249, 717	429, 241
Frozen	708, 235	68, 248
Mackerel	1, 881, 374	99, 067
Sturgeon	947, 206	190, 649
Swordfish:		
Fresh	1, 280, 305	273, 717
Frozen	5, 236, 408	419, 343
Fish, not specially provided for	8, 074, 890	377, 663
Whether or not whole:		
Smelts	6, 295, 625	594, 927
Tuna fish	14, 410, 832	866, 825
Sea herring:		
Fresh	24, 617, 177	153, 595
Frozen	2, 170, 145	83, 646
Filleted, skinned, boned, sliced, or divided, not specially provided for	10, 870, 250	1, 073, 333
Total	145, 427, 194	10, 237, 567

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[1] These statistics have been furnished by the Bureau of Foreign and Domestic Commerce, Department of Commerce.

Imports of fishery products entered for consumption, 1937—Continued

Item	Pounds	Value
EDIBLE FISHERY PRODUCTS—continued		
Fish, salted, dried, smoked, pickled, or preserved:		
Dried and unsalted:		
Cod, haddock, hake, pollock, and cusk	78, 060	$5, 267
Other	3, 421, 380	418, 946
In oil or in oil and other substances:		
Sardines	28, 727, 105	3, 842, 951
Anchovies	2, 170, 033	865, 194
Tuna fish	11, 053, 349	2, 033, 958
Antipasto	271, 020	103, 993
Other	549, 612	117, 368
Not in oil or in oil and other substances:		
In airtight containers weighing, with contents, not over 15 pounds each:		
Anchovies	1, 581, 454	164, 726
Salmon	6, 712, 731	411, 471
Herring and sardines	11, 792, 040	907, 787
Fish cakes, balls, and pudding	2, 188, 313	151, 916
Other	1, 899, 189	243, 175
Pickled or salted:		
Not in oil, etc., and not in airtight containers weighing, with contents, 15 pounds or less each:		
Salmon	124, 031	11, 612
Cod, haddock, hake, pollock, and cusk, neither skinned nor boned (except that vertebral column may be removed):		
Containing not more than 43 percent moisture by weight	2, 695, 239	150, 081
Containing more than 43 percent moisture by weight	46, 940, 368	2, 008, 136
Cod, haddock, hake, pollock, and cusk, skinned or boned	2, 089, 597	208, 711
Herring:		
In containers (not airtight), weighing, with contents, not more than 15 pounds each	209	47
In containers, containing not more than 10 pounds of herring	9, 080, 093	380, 740
Other herring in bulk or containers	26, 177, 847	1, 096, 060
Mackerel, in bulk or in containers weighing, with contents, more than 15 pounds each	6, 435, 254	407, 538
Alewives, in bulk or in containers weighing, with contents, more than 15 pounds each	26, 250	852
Pickled or salted, not specially provided for:		
In bulk or in containers weighing, with contents, more than 15 pounds each	1, 236, 229	95, 733
In containers (not airtight) weighing, with contents, not more than 15 pounds each	1, 131	163
Smoked or kippered:		
Not in oil, and not in airtight containers weighing, with contents, 15 pounds or less each:		
Salmon	3, 896	2, 252
Herring:		
Whole or beheaded:		
Hard, dry-smoked	1, 690, 517	49, 405
Other	319, 520	23, 950
Boned, whether or not skinned	51, 325	4, 431
Eviscerated, split, skinned, or divided, not boned	953, 878	78, 665
Cod, haddock, hake, pollock, and cusk:		
Whole, or beheaded, or eviscerated, or both	929, 574	93, 782
Filleted, skinned, boned, sliced, or divided	1, 875, 059	189, 251
Prepared or preserved, not specially provided for:		
In containers weighing, with contents, not more than 15 pounds each	34, 055	3, 266
In bulk or in containers weighing, with contents, more than 15 pounds each	90, 858	7, 534
Fish paste and fish sauce	194, 400	46, 857
Total	171, 393, 616	14, 125, 818
Caviar and other fish roe:		
Not boiled:		
Sturgeon	225, 845	320, 753
Fish roe, not specially provided for	78, 763	20, 650
Boiled, packed in airtight containers	132, 801	17, 453
Total	437, 409	358, 856
Shellfish:		
Crab meat, crab sauce, and crab paste	11, 156, 566	3, 675, 665
Oysters, oyster juice, or either in combination with other substances, in airtight containers	229, 313	52, 664
Razor clams, canned	11, 539	765
Clams (except razor clams) and clams in combination with other substances (except clam chowder)	739, 755	136, 740
Clam chowder, clam juice, and clam juice in combination with other substances	7, 696	987
Lobsters (including spiny lobsters and crawfish):		
Not canned	14, 711, 594	3, 332, 344
Canned	834, 416	417, 822
Turtles	684, 523	41, 062

Imports of fishery products entered for consumption, 1937—Continued

Item	Pounds	Value
EDIBLE FISHERY PRODUCTS—continued		
Shellfish—Continued.		
Crabs:		
Fresh or frozen (not crab meat)	13,910	$865
Prepared or preserved, not specially provided for	3,322	705
Clams, quahaugs, not in airtight containers:		
Fresh or frozen	4,996,780	75,422
Prepared or preserved	28,000	3,092
Shrimp and prawns	2,400,075	199,326
Scallops:		
Fresh but not frozen	1,151,504	198,390
Other	1,233,964	164,596
Oysters, not in airtight containers:		
Fresh or frozen (except seed oysters)	56,347	8,274
Other	2,552,101	102,720
Shellfish, not specially provided for	6,411,123	751,392
Lobster paste and sauce	28,263	8,168
Pastes and sauces of shellfish, not specially provided for	159,135	17,498
Total	47,409,926	9,188,497
Total edible fishery products	364,668,145	33,910,738
NONEDIBLE FISHERY PRODUCTS		
Marine-animal oils:	*Quantity*	*Value*
Cod oil gallons	2,954,156	1,188,824
Cod-liver oil do	5,915,964	3,866,971
Eulachon oil do	303	130
Herring oil do	4,904	1,183
Seal oil do	12,376	4,675
Sod oil do	49,545	16,406
Whale oil:		
Sperm, crude do	1,334,709	355,972
Sperm, refined or otherwise processed do	42,154	15,630
Whale oil, not specially provided for do	5,925,920	1,658,751
Marine-animal and fish oils, not specially provided for do	111,006	102,152
Total do	16,351,037	7,210,694
Pearls and imitation pearls:		
Pearls and parts, not strung or set:		
Natural		719,170
Cultured or cultivated		385,410
Imitation pearls, half pearls and hollow or filled		10,983
Imitation pearl beads:		
Hollow or filled		67,956
Other solid imitation pearl beads:		
Valued at not more than ¼ cent per inch inches	135,101,965	152,826
Valued at more than ¼, but not more than 1 cent per inch do	140,075	652
Valued at more than 1, but not more than 5 cents per inch do	12,044	170
Valued at more than 5 cents per inch do	1,330	221
Valued at not more than 10 cents per inch do	86,100	76
Total		1,337,464
Shells and buttons of pearl or shell:		
Shells, unmanufactured:		
Green snail shell pounds	223,326	43,011
Mother-of-pearl do	10,142,840	2,230,966
Shells, not specially provided for, including tortoise shells do	10,419,756	29,294
Shells and mother-of-pearl, engraved, cut, ornamented, or manufactured		69,467
Shell pearl buttons:		
Ocean gross	286,069	94,228
Fresh-water do	228,805	52,908
Buttons (from Philippine Islands) do	836,260	283,839
Total		2,803,713
Sponges:		
Sheepswool pounds	155,696	309,457
Yellow and grass do	306,139	100,253
Velvet do	52,956	67,811
Other do	66,057	109,409
Manufactures of sponges do	1,058	690
Total do	581,906	587,620
Agar agar do	704,258	418,383
Ambergris do	39	4,775
Cod-liver oil cake and cod-liver oil cake meal do	1,216,605	28,693
Cuttlefish bone do	535,590	39,428
Aquarium fish		42,700
Goldfish, live number	444,178	5,411

Imports of fishery products entered for consumption, 1937—Continued

Item	Quantity	Value
NONEDIBLE FISHERY PRODUCTS—continued		
Fish for other than human consumption, not elsewhere specified		$11, 105
Fish livers ... pounds	2, 473, 962	421, 141
Fish sounds ... do	160, 808	32, 635
Fish scrap and fish meal ... tons	92, 772	3, 357, 254
Isinglass ... pounds	85, 289	39, 137
Kelp ... do	1, 131, 063	17, 812
Skins, fish, raw or salted ... do	1, 335, 172	58, 665
Skins, seal, raw (not fur skins) ... do	1, 953, 833	291, 600
Spermaceti wax ... do	80, 339	14, 742
Whalebone, unmanufactured		1, 469
Whalebone, manufactures of		336
Total		4, 785, 286
Total, nonedible fishery products		16, 724, 777
Grand total		50, 635, 515

FISHERIES OF THE NEW ENGLAND STATES

(Area XXII)[4]

The yield of the commercial fisheries of the New England States (Maine, New Hampshire, Massachusetts, Rhode Island, and Connecticut) during 1937 amounted to 670,864,300 pounds, valued at $19,937,288 to the fishermen, representing an increase of 2 percent in volume and 11 percent in value as compared with the catch in 1935, the most recent previous year for which catch statistics are available. These fisheries gave employment to 19,624 fishermen, as compared with 18,449 in 1935.

There were 400 fishery wholesale and manufacturing establishments in the 5 States in 1937, as compared with 380 in 1935 when the most recent survey of these establishments was made. In 1937 these establishments employed 12,122 persons, paid $7,705,479 in salaries and wages, and produced manufactured products (canned, cured, packaged, and byproducts) valued at $24,038,947. In 1935 the wholesale and manufacturing firms employed 10,561 persons, paid $6,456,456 in salaries and wages, and produced manufactured products valued at $22,838,942.

Fisheries of the New England States, 1937

SUMMARY OF CATCH

Product	Maine		New Hampshire		Massachusetts	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Fish	83, 578, 600	$897, 085	34, 000	$2, 930	513, 858, 500	$11, 998, 732
Shellfish, etc	17, 600, 700	1, 908, 922	629, 800	93, 111	20, 251, 900	2, 198, 727
Total	101, 179, 300	2, 806, 007	663, 800	96, 041	534, 110, 400	14, 197, 459

Product	Rhode Island		Connecticut		Total	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Fish	9, 422, 300	$299, 040	8, 273, 600	$325, 981	615, 167, 000	$13, 523, 768
Shellfish, etc	9, 425, 100	1, 098, 924	7, 789, 800	1, 113, 836	55, 697, 300	6, 413, 520
Total	18, 847, 400	1, 397, 964	16, 063, 400	1, 439, 817	670, 864, 300	19, 937, 288

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[4] This is the number given this area by the North American Council on Fishery Investigations. It should be explained that there are included under this area craft whose principal fishing ports are in the area but at times fish elsewhere. Notable examples are the groundfish fishery in area XXI and the mackerel and southern trawl fisheries in area XXIII. For a clearer understanding of the statistics published in this section, the reader is referred to the section in the latter part of this document entitled "Statistical survey procedure."

Fisheries of the New England States, 1937—Continued

OPERATING UNITS: BY STATES

Item	Maine	New Hampshire	Massachusetts	Rhode Island	Connecticut	Total
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	482	----------	4,258	289	316	5,345
On boats and shore:						
Regular	2,606	119	3,614	429	295	7,063
Casual	3,211	53	2,609	768	575	7,216
Total	6,299	172	10,481	1,486	1,186	19,624
Vessels:						
Steam	----------	----------	29	6	4	39
Net tonnage	----------	----------	4,942	157	878	5,977
Motor	113	----------	381	68	68	630
Net tonnage	1,115	----------	15,160	788	1,267	18,330
Total vessels	113	----------	410	74	72	669
Total net tonnage	1,115	----------	20,102	945	2,145	24,307
Boats:						
Motor	2,083	45	1,754	357	230	4,469
Other	1,907	64	1,675	625	461	4,732
Accessory boats	178	----------	457	62	15	712
Apparatus:						
Purse seines:						
Mackerel	14	----------	77	----------	1	92
Length, yards	5,300	----------	36,002	----------	120	41,422
Other	9	----------	2	----------	----------	11
Length, yards	1,990	----------	1,000	----------	----------	2,990
Haul seines	31	----------	14	16	37	98
Length, yards	3,030	----------	488	2,262	3,723	9,503
Stop seines	78	----------	----------	----------	----------	78
Length, yards	35,680	----------	----------	----------	----------	35,680
Gill nets:						
Anchor	785	----------	1,475	4	----------	2,264
Square yards	278,631	----------	511,536	464	----------	790,631
Drift	500	----------	3,599	28	30	4,157
Square yards	112,373	----------	1,085,581	30,480	58,450	1,286,884
Stake	163	----------	----------	----------	24	187
Square yards	29,238	----------	----------	----------	4,740	33,978
Lines:						
Hand	4,921	750	402	244	117	6,434
Hooks	5,520	750	1,061	434	147	7,912
Trawl	15,961	50	29,020	69	----------	45,100
Hooks	858,990	2,500	1,583,818	28,643	----------	2,473,951
Troll	----------	----------	----------	117	----------	117
Hooks	----------	----------	----------	117	----------	117
Trot with hooks	----------	----------	----------	3	26	29
Hooks	----------	----------	----------	500	2,800	3,300
Pound nets	----------	----------	87	36	15	138
Floating traps	22	----------	50	36	----------	108
Weirs	216	----------	4	----------	----------	220
Fyke nets	27	----------	18	105	97	247
Dip nets	60	----------	203	10	215	488
Scap nets	----------	----------	----------	----------	12	12
Bag nets	124	31	----------	----------	----------	155
Push nets	----------	----------	117	----------	----------	117
Otter trawls	54	----------	346	49	60	509
Yards at mouth	1,288	----------	10,399	1,143	1,538	14,368
Box traps	11	----------	----------	----------	----------	11
Pots:						
Crab	160	----------	3,470	30	----------	3,660
Eel	120	----------	1,105	858	989	3,072
Lobster	185,339	3,459	72,290	29,270	15,772	306,130
Periwinkle and cockle	----------	----------	80	875	----------	955
Harpoons	69	----------	74	50	16	209
Spears	5	----------	22	34	6	67
Dredges:						
Clam	----------	----------	94	18	----------	112
Yards at mouth	----------	----------	39	15	----------	54
Mussel	----------	----------	----------	4	----------	4
Yards at mouth	----------	----------	----------	4	----------	4
Oyster	----------	----------	35	37	78	150
Yards at mouth	----------	----------	35	55	100	190
Scallop	134	----------	2,857	705	----------	3,696
Yards at mouth	194	----------	2,455	574	----------	3,223
Tongs:						
Oyster	----------	----------	37	48	38	123
Other	----------	----------	138	572	61	771
Rakes:						
Oyster	----------	----------	----------	37	2	39
Other	3	----------	823	103	63	992
Forks	----------	----------	463	15	----------	478
Hoes	2,104	105	1,782	56	35	4,082

Fisheries of the New England States, 1937—Continued

CATCH: BY STATES

Species	Maine		New Hampshire		Massachusetts		Rhode Island		Connecticut		Total	
FISH	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	2, 818, 000	$10, 936			1, 085, 900	$8, 283	218, 200	$1, 916	84, 800	$851	4, 206, 900	$21, 986
Anchovies					200	4	32, 000	290			32, 200	294
Bluefish					46, 900	4, 019	140, 100	10, 256	33, 600	4, 654	220, 600	18, 929
Bonito					4, 600	315	43, 000	3, 733			47, 600	4, 048
Butterfish	9, 900	620			2, 250, 400	87, 407	570, 400	19, 031	39, 100	2, 529	2, 869, 800	109, 587
Carp					1, 000	40			39, 500	3, 055	40, 500	3, 095
Catfish and bullheads									300	2	300	2
Cod	7, 049, 500	146, 981	1, 000	$30	126, 327, 600	2, 472, 225	1, 067, 100	31, 498	159, 400	6, 127	134, 604, 600	2, 656, 861
Crevalle							2, 000	20			2, 000	20
Croaker					866, 400	28, 057					866, 400	28, 057
Cunner					27, 800	894	14, 100	175	1, 000	20	42, 900	1, 089
Cusk	1, 552, 900	26, 825	1, 000	30	8, 618, 500	158, 798					10, 172, 400	185, 653
Drum, red					2, 800	16					2, 800	16
Eels:												
Common	59, 300	5, 326			92, 700	8, 184	177, 400	14, 330	74, 700	7, 060	404, 100	34, 900
Conger					45, 600	669	15, 900	439	1, 400	74	62, 900	1, 182
Flounders:												
Gray sole	958, 300	28, 472			9, 985, 000	475, 150					10, 943, 300	503, 622
Lemon sole					3, 268, 700	226, 766			24, 800	1, 984	3, 293, 500	228, 750
Yellowtail and dab	295, 200	4, 257			16, 607, 800	377, 242	544, 600	10, 908	2, 616, 900	73, 526	20, 064, 500	465, 933
Blackback	769, 100	22, 939			5, 541, 000	217, 657	1, 181, 400	38, 587	3, 174, 400	122, 244	10, 665, 900	401, 427
Fluke					1, 960, 400	167, 092	91, 300	4, 551	407, 200	33, 376	2, 458, 900	205, 019
Unclassified	28, 100	1, 648			747, 700	23, 348					775, 800	24, 996
Goosefish					16, 600	178			20, 000	150	36, 600	328
Grayfish					27, 600	528	4, 000	50			31, 600	578
Haddock	2, 836, 700	96, 749	2, 000	80	166, 583, 500	4, 072, 967	1, 200	39	63, 400	2, 515	169, 486, 800	4, 172, 350
Hake	7, 796, 400	79, 758	2, 000	40	17, 274, 200	282, 682	17, 900	248	18, 100	566	25, 108, 600	363, 294
Halibut	23, 000	3, 320			2, 415, 700	253, 146			700	77	2, 439, 400	256, 543
Herring, sea	49, 952, 400	266, 377			2, 894, 400	28, 010	195, 600	2, 747			53, 042, 400	297, 134
Herring smelt					10, 200	167					10, 200	167
Hickory shad							11, 100	174	1, 700	85	12, 800	259
King whiting or "kingfish"					11, 600	315	2, 900	118			14, 500	433
Lamprey									2, 800	300	2, 800	300
Launce					268, 500	3, 383					268, 500	3, 383
Mackerel	1, 543, 800	48, 603			21, 165, 700	886, 092	594, 300	19, 832	77, 000	4, 702	23, 380, 800	959, 229
Menhaden					39, 000	357	129, 000	856	126, 000	1, 175	294, 000	2, 388
Minnows									2, 100	700	2, 100	700
Mummichog									1, 000	200	1, 000	200
Pollock	6, 699, 800	60, 363			30, 614, 000	459, 767	250, 100	3, 571	2, 600	88	37, 566, 500	523, 789
Rosefish	140, 300	973			58, 215, 600	886, 506					58, 355, 900	887, 479
Salmon	24, 200	6, 002			4, 400	287					28, 600	6, 289
Scup or porgy					8, 234, 500	175, 942	1, 678, 400	32, 984	149, 900	4, 389	10, 061, 900	213, 315

Sea bass	900	46			2, 345, 900	125, 714	146, 500	10, 020	60, 100	5, 160	2, 553, 400	140, 940
Sea robin					55, 700	829	102, 600	694	22, 400	448	180, 700	1, 971
Shad	9, 300	378			48, 400	2, 286	4, 800	467	382, 900	24, 164	445, 400	27, 295
Sharks	35, 000	460			88, 700	1, 989	3, 400	55			127, 100	2, 504
Silversides							400	4			400	4
Skates					41, 100	566	302, 100	1, 499	56, 000	588	399, 200	2, 653
Skipper or "billfish"					600	68					600	68
Smelt	608, 200	66, 643	28, 000	2, 750	1, 500	300			1, 700	710	639, 400	70, 403
Spot					1, 300	17	400	8			1, 700	25
Squeteagues, or "sea trout," gray					128, 200	5, 843	64, 200	4, 634	8, 500	899	200, 900	11, 376
Squirrel hake									3, 600	90	3, 600	90
Striped bass					120, 600	9, 771	317, 100	24, 785	12, 800	1, 864	450, 500	36, 420
Sturgeon	1, 200	92			7, 300	662	900	76	100	13	9, 500	843
Suckers	30, 500	762							108, 900	4, 263	139, 400	5, 025
Swordfish	72, 300	11, 379			1, 413, 200	229, 273	333, 500	43, 603	49, 000	6, 685	1, 868, 000	290, 940
Tautog	100	4			83, 900	3, 890	99, 500	3, 591	20, 900	1, 543	204, 400	9, 028
Thimble-eyed mackerel							4, 700	94			4, 700	94
Tilefish	21, 000	840			15, 600	631					36, 600	1, 471
Tomcod	8, 200	144									8, 200	144
Tuna	201, 600	5, 884			685, 000	22, 700	42, 200	2, 991			928, 800	31, 575
Turbot					100	3					100	3
White perch					2, 200	29	1, 000	180			3, 200	209
Whiting	200	4			21, 037, 800	239, 214	1, 017, 000	9, 986	425, 200	9, 105	22, 480, 200	258, 309
Wolffish	32, 900	274			2, 524, 900	48, 454					2, 557, 800	48, 728
Yellow perch	300	26									300	26
Total	83, 578, 600	897, 085	34, 000	2, 930	513, 858, 500	11, 998, 732	9, 422, 300	299, 040	8, 273, 600	325, 981	615, 167, 000	13, 523, 768
SHELLFISH, ETC.												
Crabs:												
Hard	609, 700	16, 723			1, 565, 700	40, 283	332, 400	9, 973	6, 600	424	2, 514, 400	67, 403
Rock							1, 600	80			1, 600	80
Soft and peelers							400	150	200	67	600	217
Lobsters	7, 348, 500	1, 387, 436	155, 800	37, 511	2, 134, 900	560, 291	773, 800	178, 083	522, 900	140, 712	10, 935, 900	2, 304, 033
Shrimp	200	3			6, 800	475					7, 000	478
Clams:												
Hard, public [1]	13, 200	960			1, 300, 500	109, 332	2, 214, 400	280, 073	202, 700	42, 768	3, 730, 800	433, 133
Hard, private [1]					10, 000	726	66, 900	8, 205	800	150	77, 700	9, 081
Razor					725, 500	18, 888					725, 500	18, 888
Soft, public [2]	8, 415, 000	364, 700	474, 000	55, 600	5, 514, 100	491, 327	170, 400	11, 693	51, 200	6, 754	14, 624, 700	930, 074
Soft, private [2]					52, 500	4, 375					52, 500	4, 375
Surf or skimmer					1, 700	100	8, 000	670			9, 700	770
Conchs									19, 200	815	19, 200	815
Mussels, sea	10, 800	275					5, 000	479			15, 800	754

[1] Statistics on hard clams used in this table are based on yields of 11 pounds of meats per bushel in Maine; 11.01 pounds in Massachusetts; 12 pounds in Rhode Island; and 12.12 pounds in Connecticut.

[2] Statistics on soft clams used in this table are based on yields of 15 pounds of meats per bushel in Maine and New Hampshire; 14.15 pounds in Massachusetts; and 20 pounds in Rhode Island and Connecticut.

Fisheries of the New England States, 1937—Continued

CATCH: BY STATES—Continued

Species	Maine		New Hampshire		Massachusetts		Rhode Island		Connecticut		Total	
SHELLFISH, ETC—continued	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Oysters, market:[3]												
Public, spring					23, 400	$8, 225	37, 200	$4, 840	8, 100	$966	68, 700	$14, 031
Public, fall							69, 500	9, 557	48, 600	5, 637	118, 100	15, 194
Private, spring					184, 300	67, 778	1, 841, 600	232, 723	3, 296, 000	403, 418	5, 321, 900	703, 919
Private, fall							2, 381, 900	323, 768	3, 524, 800	493, 111	5, 906, 700	816, 879
Periwinkles and cockles	2, 400	$200			9, 500	582	60, 400	1, 632			72, 300	2, 414
Scallops:												
Bay	71, 400	10, 276			1, 292, 100	255, 617	99, 400	19, 359	89, 600	18, 250	1, 552, 500	303, 502
Sea	679, 400	75, 655			4, 976, 900	553, 496	2, 700	236			5, 659, 000	629, 387
Squid	14, 300	92			1, 914, 300	24, 888	1, 347, 500	16, 563	19, 100	764	3, 295, 200	42, 307
Sea urchins	82, 400	440									82, 400	440
Irish moss					182, 400	16, 193					182, 400	16, 193
Kelp					120, 000	720					120, 000	720
Bloodworms	236, 600	35, 701			27, 400	6, 571					264, 000	42, 272
Sandworms	116, 800	16, 461			209, 900	38, 860					326, 700	55, 321
Starfish							12, 000	840			12, 000	840
Total	17, 600, 700	1, 908, 922	629, 800	$93, 111	20, 251, 900	$2, 198, 727	9, 425, 100	1, 098, 924	7, 789, 800	1, 113, 836	55, 697, 300	6, 413, 520
Grand total	101, 179, 300	2, 806, 007	663, 800	96, 041	534, 110, 400	14, 197, 459	18, 847, 400	1, 397, 964	16, 063, 400	1, 439, 817	670, 864, 300	19, 937, 288

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[3] Statistics on oysters used in this table are based on yields of 6.57 pounds of meats per bushel in Massachusetts; 7.05 pounds in Rhode Island; and 7.7 pounds in Connecticut.

NOTE.—The above includes the catch made by New England craft in the southern trawl fishery.

SUPPLEMENTARY TABLE SHOWING THE PRODUCTION OF CERTAIN SHELLFISH IN NUMBER AND BUSHELS

Product	Maine		New Hampshire		Massachusetts		Rhode Island		Connecticut		Total	
	Quantity	*Value*	*Quantity*	*Value*	*Quantity*	*Value*	*Quantity*	*Value*	*Quantity*	*Value*	*Quantity*	*Value*
Crabs:												
Hard, number	2,024,204	$16,723			6,262,800	$40,283	997,200	$9,973	18,480	$424	9,302,684	$67,403
Soft and peelers, do							1,600	150	800	67	2,400	217
Rock, do							16,900	80			16,000	80
Clams:												
Hard, public, bushels	1,200	960			118,120	109,332	184,533	280,073	16,724	42,768	320,577	433,133
Hard, private, do					908	726	5,575	8,205	66	150	6,549	9,081
Razor, do					24,023	18,888					24,023	18,888
Soft, public, do	561,000	364,700	31,600	$55,600	389,689	491,327	8,520	11,693	2,560	6,754	993,369	930,074
Soft, private, do					3,710	4,375					3,710	4,375
Surf or skimmer, do					100	100	667	670			767	770
Conchs, do									972	815	972	815
Mussels, sea, do	900	275					385	479			1,285	754
Oysters, market:												
Public, spring, do					3,562	8,225	5,277	4,840	1,052	966	9,891	14,031
Public, fall, do							9,858	9,557	6,312	5,637	16,170	15,194
Private, spring, do					28,052	67,778	261,220	232,723	428,052	403,418	717,324	703,919
Private, fall, do							337,858	323,768	457,766	493,111	795,624	816,879
Periwinkles and cockles, do	133	200			528	582	3,356	1,632			4,017	2,414
Scallops:												
Bay, do	11,900	10,276			212,866	255,617	16,058	19,359	14,452	18,250	255,276	303,502
Sea, do	113,233	75,655			829,483	553,496	450	236			943,166	629,387

Fisheries of the New England States, 1937—Continued

SEED OYSTER FISHERY

Item	Rhode Island		Connecticut		Total	
OPERATING UNITS						
Fishermen:	*Number*		*Number*		*Number*	
On vessels	4		185		189	
On boats and shore:						
Regular	2		160		162	
Casual	2		69		71	
Total	8		414		422	
Vessels:						
Steam	-----		3		3	
Net tonnage	-----		279		279	
Motor	1		19		20	
Net tonnage	19		442		461	
Sail	-----		23		23	
Net tonnage	-----		169		169	
Total vessels	1		45		46	
Total net tonnage	19		890		909	
Boats:						
Motor	2		1		3	
Other	2		109		111	
Apparatus:						
Dredges	2		191		193	
Yards at mouth	3		169		172	
Tongs	4		93		97	
Rakes	-----		11		11	
CATCH						
Oyster, seed:	*Bushels*	*Value*	*Bushels*	*Value*	*Bushels*	*Value*
Public, spring	12, 000	$12, 000	50, 945	$35, 685	62, 945	$47, 685
Public, fall	915	549	42, 172	29, 307	43, 087	29, 856
Private, spring	-----	-----	284, 800	278, 700	284, 800	278, 700
Private, fall	-----	-----	63, 727	60, 492	63, 727	60, 492
Total	12, 915	12, 549	441, 644	404, 184	454, 559	416, 733

NOTE.—Of the total number of person fishing for seed oysters 225 are duplicated among those fishing for market oysters or other species. Similarly the following craft and gear are duplicated: 8 vessels, 3 motorboats, 55 other boats, 16 dredges, and 4 tongs.

Industries related to the fisheries of the New England States, 1937

OPERATING UNITS, SALARIES, AND WAGES

Item	Maine and New Hampshire	Massachusetts	Connecticut	Rhode Island	Total
Transporting:					
Persons engaged:	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	130	35	19	18	202
On boats	5	27	-----	-----	32
Total	135	62	19	18	234
Vessels, motor	65	8	9	5	87
Net tonnage	729	205	311	49	1, 294
Boats	3	15	-----	-----	18
Wholesale and manufacturing:					
Establishments	146	193	34	27	400
Persons engaged:					
Proprietors	125	155	29	23	332
Salaried employees	177	554	40	31	802
Wage earners:					
Average for season	5, 901	4, 312	482	293	10, 988
Average for year	2, 425	3, 750	186	198	6, 559
Paid to salaried employees	$269, 336	$1, 428, 009	$115, 921	$68, 779	$1, 882, 045
Paid to wage earners	$1, 391, 704	$4, 053, 018	$200, 122	$178, 590	$5, 823, 434
Total salaries and wages	$1, 661, 040	$5, 481, 027	$316, 043	$247, 369	$7, 705, 479
Fishermen manufacturing	942	2, 219	9	246	3, 416

Industries related to the fisheries of the New England States, 1937—Continued

PRODUCTS MANUFACTURED

Item	Maine [1]		Massachusetts		Rhode Island		Connecticut	
	Quantity	*Value*	*Quantity*	*Value*	*Quantity*	*Value*	*Quantity*	*Value*
By manufacturing establishments:								
Alewives, salted, round pounds	1, 450, 900	$40, 728						
Cod:								
Fresh fillets do	169, 309	18, 874	6, 777, 546	$751, 001				
Fresh sticks do	251, 060	25, 469						
Frozen fillets do	(2)	(2)	10, 920, 784	920, 238				
Salted:								
Green [3] do	1, 034, 300	44, 832						
Dry do	41, 500	2, 760	3, 207, 750	216, 935				
Boneless, including absolutely boneless do	245, 021	32, 296	7, 475, 566	1, 313, 272				
Smoked fillets do	108, 111	13, 866	685, 591	90, 631				
Oil, cod gallons	4, 089	1, 553	(2)	(2)				
Oil, cod liver do	16, 359	10, 566	257, 625	153, 824				
Cusk:								
Fresh fillets pounds	68, 928	7, 875	850, 340	96, 897				
Fresh sticks do	487, 319	54, 670						
Frozen fillets do	(2)	(2)	160, 434	13, 645				
Salted, green [3] do	16, 800	725	(2)	(2)				
Smoked fillets do	71, 700	8, 430	442, 163	57, 683				
Flounders:								
Fresh fillets do	50, 152	6, 648	1, 841, 986	262, 889				
Frozen fillets do	50, 130	6, 015	1, 339, 714	221, 996				
Haddock:								
Fresh fillets do	115, 504	19, 831	14, 193, 636	1, 686, 982				
Fresh sticks do	34, 472	6, 105						
Frozen fillets do	(2)	(2)	22, 686, 862	2, 063, 746				
Finnan haddie do	200, 900	25, 275	553, 769	63, 796				
Hake:								
Fresh fillets do	179, 568	18, 457	1, 590, 364	153, 353				
Fresh sticks do	457, 799	49, 772						
Frozen fillets do	(2)	(2)	431, 285	28, 407				
Salted:								
Green [3] do	1, 198, 275	38, 915						
Dry do			1, 664, 816	76, 704				
Boneless do	202, 800	15, 266	(2)	(2)				

See footnotes at end of table.

Industries related to the fisheries of the New England States, 1937—Continued

PRODUCTS MANUFACTURED—Continued

Item	Maine		Massachusetts		Rhode Island		Connecticut	
	Quantity	*Value*	*Quantity*	*Value*	*Quantity*	*Value*	*Quantity*	*Value*
By manufacturing establishments—Continued.								
Herring, sea:								
Salted:								
Split.......pounds	232, 800	$7, 084						
Unclassified.......do	97, 600	2, 835	1, 005, 042	$61, 972				
Pickled in vinegar.......do	300, 400	11, 554	(2)	(2)				
Smoked:								
Bloaters:								
Hard.......do	146, 220	5, 635	(2)	(2)				
Soft.......do	21, 768	1, 136						
Boneless.......do	2, 095, 272	204, 697						
Lengthwise.......do	84, 845	4, 725						
Medium scaled.......do	262, 612	16, 904						
Kippered.......do			80, 972	12, 289				
Canned "sardines".......standard cases	1, 680, 241	4, 998, 373						
Dry scrap and meal.......tons	3, 096	91, 735						
Oil.......gallons	53, 853	9, 207						
Mackerel:								
Fresh fillets.......pounds			227, 640	29, 386				
Frozen fillets.......do			111, 365	18, 407				
Salted:								
Fillets.......do			678, 876	77, 714				
Split.......do			1, 120, 051	113, 049				
Pollock:								
Fresh fillets.......do	114, 495	8, 741	1, 364, 957	111, 201				
Fresh sticks.......do	68, 520	6, 031						
Frozen fillets.......do	375, 066	20, 007	11, 241, 927	690, 594				
Salted:								
Green [3].......do	432, 305	10, 812						
Dry.......do	71, 000	2, 405	(2)	(2)				
Rosefish:								
Fresh fillets.......do	(2)	(2)	671, 112	73, 725				
Frozen fillets.......do	(2)	(2)	14, 792, 908	1, 415, 418				
Whiting:								
Fresh fillets.......do			458, 828	32, 188				
Frozen fillets.......do			922, 065	49, 710				
Wolffish, frozen fillets.......do			69, 545	6, 172				
Crab meat, packaged, fresh-cooked.......do	116, 350	49, 158	182, 078	68, 571				
Lobster meat, packaged, fresh-cooked.......do	(2)	(2)	147, 085	156, 040				
Clams, hard, fresh-shucked.......gallons			(2)	(2)	3, 710	$5, 857		
Clams, soft:								
Fresh-shucked.......do	[4] 123, 760	[4] 137, 602	343, 171	459, 629	104, 000	11, 140		

Canned:									
Whole	standard cases	134, 897	487, 286						
Chowder	do	68, 439	210, 796	(2)	(2)				
Juice, bouillon, and cocktail	do	14, 116	25, 769						
Oysters, fresh-shucked	gallons					303, 765	677, 067	325, 578	$628, 867
Unclassified products:									
Fillets, fresh and frozen	pounds	[5] 180, 815	[5] 19, 252	[6] 59,420	[6] 12, 639				
Sticks and steaks, fresh and frozen	do			[7] 1, 227, 140	[7] 95, 737				
Salted	do	(8)	(8)	[9] 2, 156, 970	[9] 186, 289				
Smoked	do	[10] 62, 000	[10] 4, 770	[11] 1, 177, 987	[11] 222, 980	(8)	(8)	(8)	(8)
Canned:									
Fish cakes, balls, etc	standard cases	12, 476	70, 421	89, 684	650, 149				
Fish flakes	do	(12)	(12)	13, 691	130, 202				
Cat and dog food	do			41, 982	88, 171				
Other	do	[13] 27, 059	[13] 229, 696	[14] 27, 164	[14] 179, 687	(8)	(8)		
Meal, groundfish	tons	(8)	(8)	13, 928	388, 245				
Oil, miscellaneous	gallons			[15] 42, 386	[15] 16, 397				
Oil, miscellaneous liver	do			[16] 11, 318	[16] 460, 195				
Miscellaneous			[17] 357, 712		[18] 1, 131, 232		[19] 116, 508		[20] 46, 250
Total			7, 443, 271		15, 109, 987		810, 572		675, 117
By fishermen:									
Alewives, smoked	pounds	171, 200	9, 230	5, 000	300				
Cod:									
Salted, green [3]	do	80, 000	2, 800	252, 000	7, 506				
Salted, dry	do	1, 600	83						
Cusk, salted, green [3]	do			400	8				
Hake, salted, green [3]	do			6, 400	113				
Herring, sea, smoked:									
Boneless	do	1, 000	144						
Medium scaled	do	750	45						
Pollock:									
Salted, green [3]	do			2, 100	39				
Salted, dry	do	4, 000	310						
Crab meat, packaged, fresh-cooked	do	2, 730	956			2, 000	800		
Clams, hard, fresh-shucked	gallons					1, 500	3, 000		
Clams, razor, fresh-shucked	do			37, 467	15, 107				
Clams, soft:									
Fresh shucked	do	[4] 75, 577	[4] 57, 971	25, 252	27, 536			15	23
Steamed	pounds	157, 220	14, 801						
Oysters, fresh-shucked	gallons			4, 100	7, 160			2, 464	3, 330

See footnotes at end of table.

Industries related to the fisheries of the New England States, 1937—Continued

PRODUCTS MANUFACTURED—Continued

Item	Maine		Massachusetts		Rhode Island		Connecticut	
	Quantity	*Value*	*Quantity*	*Value*	*Quantity*	*Value*	*Quantity*	*Value*
By fishermen—Continued.								
Scallops:								
Bay, fresh-shucked ... gallons			131, 706	$391, 396	8, 600	$27, 584	42	$147
Sea, fresh-shucked ... do	33, 218	$43, 104	487, 321	468, 160	20, 400	17, 340		
Total		129, 444		917, 325		48, 724		3, 500
Grand total		7, 572, 715		16, 027, 312		859, 296		678, 617

[1] A small quantity of manufactured products produced in New Hampshire have been included with those of Maine.

[2] This item has been included under "Unclassified products."

[3] This item is usually an intermediate product, and although included in the total, may be shown in its final stage of processing in this or another State.

[4] Includes the New Hampshire production.

[5] Includes fresh fillets of rosefish, and frozen fillets of cod, cusk, haddock, hake, and rosefish.

[6] Includes fresh fillets of halibut, red snapper, striped bass, and wolffish; and frozen fillets of halibut and salmon.

[7] Includes fresh steaks of cod, haddock, mackerel, halibut, pollock, salmon, and swordfish; frozen steaks of cod, halibut, wolffish, pollock, salmon, and swordfish; and fresh whiting sticks.

[8] The production of this item has been included under "Miscellaneous."

[9] Includes salted fillets of cod and hake; green-salted cusk and haddock; dry-salted pollock and haddock, salted boneless hake; and pickled and spiced alewives.

[10] Includes smoked fillets of hake, herring, and pollock.

[11] Includes smoked fillets of haddock and hake; smoked alewives, butterfish, carp, herring, and herring bloaters, lake trout, mackerel, salmon, shad, and whitefish.

[12] This item has been included under "Other canned products."

[13] Includes canned finnan haddie, alewife roe, clam cakes, fish chowder, and fish flakes.

[14] Includes canned tuna, mackerel, clam products, finnan haddie, haddock chowder, and miscellaneous canned groundfish products.

[15] Includes rosefish, blackfish, and cod oils.

[16] Includes tuna, halibut, sablefish, swordfish, and mixed liver oils.

[17] Includes fresh-cooked lobster meat; salted boneless cusk; green-salted haddock; herring scrap and meal; groundfish, clam, and miscellaneous fish meals; marine-shell buttons; pearl essence; and kelp products.

[18] Includes fresh-shucked clams and scallops; herring pickled in vinegar; miscellaneous scrap and meal; liver pressings; glue; isinglass; and marine-shell products.

[19] Includes fresh-cooked crab and lobster meat; smoked finnan haddie; canned hard clam chowder; and marine-shell products.

[20] Includes smoked butterfish, carp, chub, cisco, salmon and spoonbill cat; and poultry feed from crushed marine-shells.

NOTE.—The total value of manufactured products for the New England States was as follows: By manufacturing establishments, $24,038,947; and by fishermen, $1,098,993. Some of the above products may have been manufactured from products imported from another State or a foreign country; therefore they cannot be correlated directly with the catch within the State. Of the total number of persons engaged in the preparation of fishermen's manufactured products, 3,371 have also been included as fishermen, and 16 of the persons shown on transporting craft have also been included as fishermen. This should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

MAINE

Fisheries of Maine, 1937

OPERATING UNITS: BY GEAR

Item	Purse seines		Haul seines	Stop seines	Gill nets		
	Mackerel	Other			Anchor	Drift	Stake
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	61	8		120	87	7	4
On boats and shore:							
Regular	7	21	37	74	50	28	1
Casual			33	3	3	42	27
Total	68	29	70	197	140	77	32
Vessels, motor:							
5 to 10 tons	11	2		23	13	1	
11 to 20 tons	1			6	3	1	1
21 to 30 tons				1			
Total	12	2		30	16	2	1
Net tonnage	98	16		263	148	23	12
Boats:							
Motor	2	7	28	22	21	26	
Other	4	10	31	58		31	25
Accessory boats	18	2		97			
Apparatus:							
Number	14	9	31	78	785	500	163
Length, yards	5, 300	1, 990	3, 030				
Square yards				35, 680	278, 631	112, 373	29, 238

Item	Lines		Floating traps	Weirs	Fyke nets	Dip nets	Bag nets	Otter trawls	Box traps
	Hand	Trawl							
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	14	145						69	
On boats and shore:									
Regular	278	326	32	242		4	31	58	
Casual	872	58	3	78	5	57	54	2	17
Total	1, 164	529	35	320	5	61	85	129	17
Vessels, motor:									
5 to 10 tons	5	15						14	
11 to 20 tons		8						7	
21 to 30 tons		1							
31 to 40 tons		1							
51 to 60 tons		1							
Total	5	26						21	
Net tonnage	30	340						208	
Boats:									
Motor	264	250	15	35				33	
Other	69		29	322	5		16		7
Accessory boats		62							
Apparatus:									
Number	4, 921	15, 961	22	216	27	60	124	54	11
Yards at mouth								1, 288	
Hooks, baits, or snoods	5, 520	858, 990							

Fisheries of Maine, 1937—Continued

OPERATING UNITS: BY GEAR—Continued

Item	Pots			Harpoons	Spears	Dredges, scallop	Rakes, other than for oysters	Hoes	By hand, other than for oysters	Total, exclusive of duplication
	Crab	Eel	Lobster							
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:										
On vessels			20	38		33				482
On boats and shore:										
Regular	4	3	1,884	81		105	3	622	8	2,606
Casual		4	718	29	5	59		1,482	6	3,211
Total	4	7	2,622	148	5	197	3	2,104	14	6,299
Vessels, motor:										
5 to 10 tons			18	3		5				86
11 to 20 tons				2		1				22
21 to 30 tons										2
31 to 40 tons						1				2
51 to 60 tons				1						1
Total			18	6		7				113
Net tonnage			109	108		87				1,115
Boats:										
Motor	4		1,812	63		105				2,083
Other		6	643		5		3	862	10	1,907
Accessory boats				9						178
Apparatus:										
Number	160	120	185,339	69	5	134	3	2,104		
Yards at mouth						194				

CATCH: BY GEAR

Species	Purse seines				Haul seines		Stop seines	
	Mackerel		Other					
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	325,600	$1,707	64,200	$411	600	$25		
Herring, sea	225,200	1,454	496,500	3,324			28,266,500	$161,577
Mackerel	614,500	21,916	37,400	1,619				
Pollock	20,000	150	892,000	5,619				
Sharks	300	4						
Smelt					112,600	9,697		
Total	1,185,600	25,231	1,490,100	10,973	113,200	9,722	28,266,500	161,577

Species	Gill nets						Lines, hand	
	Anchor		Drift		Stake			
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Cod	2,532,600	$69,639			94,400	$2,693	794,200	$12,052
Cusk	6,300	99					3,800	69
Flounders:								
Gray sole	1,100	12						
Blackback	2,700	28						
Yellowtail and dab	2,200	24					100	2
Unclassified							1,000	85
Haddock	409,200	13,285					50,700	1,635
Hake	1,116,100	15,258					90,600	847
Halibut	100	10					2,900	413
Mackerel	300	24	123,500	$6,079			3,800	104
Pollock	2,884,800	32,279			200,000	2,015	1,351,900	10,332
Rosefish	6,900	39						
Salmon					400	80		
Sea bass	800	32						
Shad	3,300	166			1,000	112		
Sharks	33,400	442	100	2	900	9		
Smelt			18,500	1,980	45,500	5,290	231,700	28,197
Sturgeon	500	41						
Tautog	100	4						
Whiting	100	2	100	2				
Wolffish	1,000	8					700	6
Lobsters	100	24						
Total	7,001,600	131,416	142,200	8,063	342,200	10,199	2,531,400	53,742

Fisheries of Maine, 1937—Continued

CATCH: BY GEAR—Continued

Species	Lines, trawl		Floating traps		Weirs		Fyke nets	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives					509,500	$2,260		
Butterfish			9,800	$613				
Cod	3,273,200	$56,080						
Cusk	1,539,800	26,610						
Eels, common							300	$23
Flounders:								
Gray sole	1,000	28						
Blackback	600	5	10,300	71				
Yellowtail and dab	4,000	50						
Unclassified	7,000	590						
Haddock	1,297,500	43,871						
Hake	5,651,400	54,565						
Halibut	18,600	2,706						
Herring, sea			383,300	2,466	20,580,900	97,556		
Mackerel			690,600	16,933	73,700	1,928		
Pollock	1,225,900	9,056	22,500	149	84,500	640		
Rosefish	7,700	48						
Salmon			9,400	2,073	12,900	3,549		
Sea bass					100	14		
Shad					5,000	100		
Sharks	200	2						
Smelt					28,900	3,218		
Sturgeon	600	48	100	3				
Suckers							30,500	762
Tilefish	21,000	840						
Tomcod							2,700	54
Wolffish	9,300	78						
Yellow perch							300	26
Squid			14,300	92				
Total	13,057,800	194,577	1,140,300	22,400	21,295,500	109,265	33,800	865

Species	Dip nets		Bag nets		Otter trawls		Box traps	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	1,918,100	$6,533						
Butterfish					100	$7		
Cod					355,100	6,517		
Cusk					3,000	47		
Eels, common							40,500	$3,708
Flounders:								
Gray sole					956,200	28,432		
Yellowtail and dab					288,900	4,181		
Blackback					755,500	22,835		
Unclassified					20,100	973		
Haddock					1,079,300	37,958		
Hake					938,300	9,088		
Halibut					1,400	191		
Pollock					18,200	123		
Rosefish					125,700	886		
Salmon	1,500	300						
Sharks					100	1		
Smelt	22,800	2,356	148,200	$15,905				
Tomcod	4,000	45	1,500	45				
Wolffish					21,900	182		
Shrimp					200	3		
Total	1,946,400	9,234	149,700	15,950	4,564,000	111,424	40,500	3,708

Species	Pots						Harpoons	
	Crab		Eel		Lobster			
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Eels, common			15,500	$1,325				
Swordfish							72,300	$11,379
Tuna							201,600	5,884
Crabs, hard	93,300	$2,100			516,400	$14,623		
Lobsters					7,348,400	1,387,412		
Total	93,300	2,100	15,500	1,325	7,864,800	1,402,035	273,900	17,263

Fisheries of Maine, 1937—Continued

CATCH: BY GEAR—Continued

Species	Spears		Dredges, scallop		Rakes		Hoes		By hand	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Eels, common	3,000	$270								
Clams:										
Hard, public							13,200	$960		
Soft, public							8,415,000	364,700		
Mussels, sea					7,200	$175	3,600	100		
Periwinkles and cockles									2,400	$200
Scallops:										
Bay			71,400	$10,276						
Sea			679,400	75,655						
Sea urchins									82,400	440
Bloodworms							236,600	35,701		
Sandworms							116,800	16,461		
Total	3,000	270	750,800	85,931	7,200	175	8,785,200	417,922	84,800	640

OPERATING UNITS: BY COUNTIES

Item	Cumberland	Hancock	Kennebec	Knox	Lincoln	Penobscot	Sagadahoc	Waldo	Washington	York
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	239	36		91	67		6		28	15
On boats and shore:										
Regular	407	605		431	312		73	42	569	167
Casual	314	953	2	325	440	12	262	61	743	99
Total	960	1,594	2	847	819	12	341	103	1,340	281
Vessels, motor:										
5 to 10 tons	26	11		26	12		2		6	3
11 to 20 tons	11	2		4	4				1	
21 to 30 tons	2									
31 to 40 tons	1			1						
51 to 60 tons	1									
Total	41	13		31	16		2		7	3
Net tonnage	515	110		259	138		15		55	23
Boats:										
Motor	330	489		450	268		55	9	309	173
Other	229	404	2	187	281	12	57	51	631	53
Accessory boats	96	8		24	24		4		19	3
Apparatus:										
Purse seines:										
Mackerel	1			2	8					3
Length, yards	350			610	3,520					820
Other		1		2	5				1	
Length, yards		250		280	1,360				100	
Haul seines	29	1		1						
Length, yards	2,900	30		100						
Stop seines	13	26		9	15		2		13	
Length, yards	11,650	6,080		2,900	7,130		1,100		6,820	
Gill nets:										
Anchor	460	28			287				10	
Square yards	208,004	15,232			54,060				1,335	
Drift	228	22		6					143	101
Square yards	64,128	1,465		1,080					18,180	27,520
Stake					36	50		9	68	
Square yards					14,158	3,840		540	10,700	
Lines:										
Hand	73	2,166		186	1,065		1,288		143	
Hooks	142	2,247		372	1,127		1,351		281	
Trawl	5,662	3,207		2,070	1,691		1,270		1,871	190
Hooks	299,000	204,620		103,500	86,950		66,750		88,670	9,500
Floating traps	5	1			4		7	5		
Weirs		83		19	3			16	95	
Fyke nets			18				9			
Dip nets		5		15	5		2		32	1

Fisheries of Maine, 1937—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Cumberland	Hancock	Kennebec	Knox	Lincoln	Penobscot	Sagadahoc	Waldo	Washington	York
Apparatus—Con.	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Bag nets		12						55	57	
Otter trawls	13	22		11	7				1	
Yards at mouth	291	553		267	154				23	
Box traps		2		3					6	
Pots:										
Crab	160									
Eel					60			50		10
Lobster	25, 387	42, 339		40, 597	29, 234		4, 602	470	29, 117	13, 593
Harpoons	43				10		16			
Spears				3	2					
Dredges, scallop	30	81		14					9	
Yards at mouth	44	104		32					14	
Rakes, other than for oysters	3									
Hoes	376	493		170	204		30	42	739	50

CATCH: BY COUNTIES

Species	Cumberland		Hancock		Kennebec	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	10, 600	$132	548, 200	$2, 271		
Butterfish	3, 700	225				
Cod	3, 217, 400	86, 194	1, 101, 600	14, 216		
Cusk	1, 031, 600	20, 334	38, 500	513		
Eels, common			6, 000	540	200	$18
Flounders:						
Gray sole	326, 000	10, 498	134, 000	2, 621		
Yellowtail and dab	125, 100	1, 678				
Blackback	32, 400	893	572, 400	18, 661		
Unclassified	2, 800	138				
Haddock	1, 016, 000	37, 692	732, 800	22, 623		
Hake	3, 330, 400	44, 732	1, 963, 500	11, 464		
Halibut	7, 600	1, 125	5, 100	712		
Herring, sea	11, 515, 900	73, 596	10, 053, 600	49, 013		
Mackerel	386, 200	14, 064	7, 800	270		
Pollock	3, 212, 500	35, 067	972, 000	7, 092		
Rosefish	81, 700	507				
Salmon	800	173	7, 800	2, 250		
Sea bass	800	32				
Shad	3, 300	166				
Sharks	33, 800	447				
Smelt	98, 100	8, 371	141, 700	14, 266		
Sturgeon	1, 200	92				
Suckers					20, 000	500
Swordfish	72, 300	11, 379				
Tautog	100	4				
Tilefish	21, 000	840				
Tomcod					2, 200	44
Tuna	62, 800	1, 671				
Whiting	200	4				
Wolffish	25, 300	204				
Yellow perch					200	16
Crabs, hard	426, 700	11, 960				
Lobsters	1, 119, 700	219, 342	1, 641, 000	319, 839		
Shrimp	200	3				
Clams:						
Hard, public	13, 200	960				
Soft, public	1, 708, 400	105, 702	927, 800	39, 439		
Mussels, sea	10, 800	275				
Scallops:						
Bay			71, 400	10, 276		
Sea	35, 400	5, 404	171, 800	25, 824		
Squid	13, 000	78				
Bloodworms	96, 700	14, 800				
Sandworms	500	90				
Total	28, 044, 200	708, 872	19, 097, 000	541, 890	22, 600	578

Fisheries of Maine, 1937—Continued

CATCH: BY COUNTIES—Continued

Species	Knox		Lincoln		Penobscot	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	460,800	$1,533	689,400	$3,219	-----	-----
Cod	868,000	14,102	691,100	15,429	-----	-----
Cusk	53,300	862	372,800	4,115	-----	-----
Eels, common	3,200	288	8,000	720	-----	-----
Flounders:						
Gray sole	393,600	12,546	104,700	2,807	-----	-----
Yellowtail and dab	146,400	2,238	18,500	238	-----	-----
Blackback	144,700	3,193	9,300	121	-----	-----
Haddock	679,100	22,265	196,900	7,109	-----	-----
Hake	1,057,200	9,743	1,045,600	10,310	-----	-----
Halibut	4,500	674	1,100	178	-----	-----
Herring, sea	7,358,400	39,755	5,261,000	30,983	-----	-----
Mackerel	111,100	3,205	616,100	21,229	-----	-----
Pollock	1,082,500	6,690	379,700	3,776	-----	-----
Rosefish	15,500	158	43,100	308	-----	-----
Salmon	-----	-----	4,500	900	-----	-----
Shad	-----	-----	1,000	112	-----	-----
Sharks	300	4	900	9	-----	-----
Smelt	34,500	3,342	54,400	7,300	8,400	$835
Tuna	-----	-----	5,000	150	-----	-----
Wolffish	5,200	52	1,300	8	-----	-----
Crabs, hard	28,000	620	128,300	3,650	-----	-----
Lobsters	1,878,300	318,341	1,000,900	182,852	-----	-----
Clams, soft, public	760,000	25,256	315,100	10,173	-----	-----
Scallops, sea	463,600	42,784	-----	-----	-----	-----
Sea urchins	-----	-----	82,400	440	-----	-----
Bloodworms	25,500	3,821	114,400	17,080	-----	-----
Sandworms	21,200	2,972	95,100	13,399	-----	-----
Total	15,594,900	514,444	11,240,600	336,615	8,400	835

Species	Sagadahoc		Waldo		Washington		York	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	104,000	$600	-----	-----	780,000	$2,056	225,000	$1,125
Butterfish	6,200	395	-----	-----	-----	-----	-----	-----
Cod	152,300	2,938	-----	-----	1,005,700	13,844	13,400	258
Cusk	18,300	342	-----	-----	33,500	557	4,900	102
Eels, common	100	5	8,000	$560	32,300	2,970	1,500	225
Flounders:								
Yellowtail and dab	-----	-----	-----	-----	5,000	100	200	3
Blackback	10,300	71	-----	-----	-----	-----	-----	-----
Unclassified	-----	-----	-----	-----	25,300	1,510	-----	-----
Haddock	23,800	770	-----	-----	175,600	5,677	12,500	613
Hake	162,700	1,542	-----	-----	221,700	1,735	15,300	232
Halibut	800	103	-----	-----	3,800	514	100	14
Herring, sea	645,500	3,229	780,000	3,400	14,338,000	66,401	-----	-----
Mackerel	335,100	7,812	-----	-----	6,000	208	81,500	1,815
Pollock	103,100	789	-----	-----	948,300	6,928	1,700	21
Salmon	2,400	580	5,600	1,469	3,100	630	-----	-----
Sea bass	-----	-----	-----	-----	100	14	-----	-----
Shad	-----	-----	-----	-----	5,000	100	-----	-----
Smelt	68,500	10,005	87,200	8,770	114,600	13,654	800	100
Suckers	10,500	262	-----	-----	-----	-----	-----	-----
Tomcod	500	10	1,500	45	4,000	45	-----	-----
Tuna	133,800	4,063	-----	-----	-----	-----	-----	-----
Wolffish	900	8	-----	-----	200	2	-----	-----
Yellow perch	100	10	-----	-----	-----	-----	-----	-----
Crabs, hard	26,700	493	-----	-----	-----	-----	-----	-----
Lobsters	221,900	40,562	12,200	2,787	756,100	150,887	718,400	152,826
Clams, soft, public	189,000	8,640	63,000	8,200	4,075,700	143,000	376,000	24,290
Periwinkles and cockles	-----	-----	-----	-----	2,400	200	-----	-----
Scallops, sea	-----	-----	-----	-----	8,600	1,643	-----	-----
Squid	1,300	14	-----	-----	-----	-----	-----	-----
Total	2,217,800	83,243	957,500	25,231	22,545,000	412,675	1,451,300	181,624

NEW HAMPSHIRE

Fisheries of New Hampshire, 1937 [1]

OPERATING UNITS: BY GEAR

Item	Lines		Bag nets	Pots, lobster	Hoes	Total, exclusive of duplication
	Hand	Trawl				
Fishermen, on boats and shore:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Regular		1		34	95	119
Casual	125	1	20	45	10	53
Total	125	2	20	79	105	172
Boats:						
Motor		2		45		45
Other				32	36	64
Apparatus:						
Number	750	50	31	3, 459	105	
Hooks	750	2, 500				

CATCH: BY GEAR

Species	Lines				Bag nets		Pots		Hoes	
	Hand		Trawl							
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Cod			1, 000	$30						
Cusk			1, 000	30						
Haddock			2, 000	80						
Hake			2, 000	40						
Smelt	20, 000	$2, 000			8, 000	$750				
Lobsters							155, 800	$37, 511		
Clams, soft, public									474, 000	$55, 600
Total	20, 000	2, 000	6, 000	180	8, 000	750	155, 800	37, 511	474, 000	55, 600

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[1] The commercial fisheries of New Hampshire are confined to Rockingham County.

MASSACHUSETTS

Fisheries of Massachusetts, 1937

OPERATING UNITS: BY GEAR

Item	Purse seines		Haul seines	Gill nets		Lines		Pound nets
	Mackerel	Other		Anchor	Drift	Hand	Trawl	
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	778	26		178	226	12	733	
On boats and shore:								
Regular	44		28	65	68	175	434	149
Casual			7	2	6	96	4	1
Total	822	26	35	245	300	283	1, 171	150
Vessels, motor:								
5 to 10 tons	3			3	4	2	3	
11 to 20 tons	22			8	17	2	21	
21 to 30 tons	9			10	6		2	
31 to 40 tons	8	1		1	1		2	
41 to 50 tons	11	1		2	1		4	
51 to 60 tons	7				1		3	
61 to 70 tons	7						9	
71 to 80 tons	1						7	
91 to 100 tons							2	
121 to 130 tons							1	
Total	68	2		24	30	4	54	
Net tonnage	2, 231	80		499	556	40	2, 206	

Fisheries of Massachusetts, 1937—Continued

OPERATING UNITS: BY GEAR—Continued

Item	Purse seines		Haul seines	Gill nets		Lines		Pound nets
	Mackerel	Other		Anchor	Drift	Hand	Trawl	
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Boats:								
Motor	9	--------	4	27	28	137	126	47
Other	9	--------	10	4	--------	55	31	59
Accessory boats	68	2	--------	--------	--------	--------	337	--------
Apparatus:								
Number	77	2	14	1, 475	3, 599	402	29, 020	87
Length, yards	36, 002	1, 000	488	--------	--------	--------	--------	--------
Square yards	--------	--------	--------	511, 536	1, 085, 581	--------	--------	--------
Hooks, baits, or snoods	--------	--------	--------	--------	--------	1, 061	1, 583, 818	--------

Item	Floating traps	Weirs	Fyke nets	Dip nets	Push nets	Otter trawls	Pots	
							Crab	Eel
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:								
On vessels	--------	--------	--------	22	--------	2, 865	--------	--------
On boats and shore:								
Regular	104	5	7	164	--------	105	89	25
Casual	6	2	9	108	117	3	14	12
Total	110	7	16	294	117	2, 973	103	37
Vessels:								
Steam:								
91 to 100 tons	--------	--------	--------	--------	--------	7	--------	--------
111 to 120 tons	--------	--------	--------	--------	--------	2	--------	--------
131 to 140 tons	--------	--------	--------	--------	--------	1	--------	--------
161 to 170 tons	--------	--------	--------	--------	--------	2	--------	--------
171 to 180 tons	--------	--------	--------	--------	--------	1	--------	--------
181 to 190 tons	--------	--------	--------	--------	--------	2	--------	--------
201 to 210 tons	--------	--------	--------	--------	--------	10	--------	--------
211 to 220 tons	--------	--------	--------	--------	--------	2	--------	--------
241 to 250 tons	--------	--------	--------	--------	--------	1	--------	--------
261 to 270 tons	--------	--------	--------	--------	--------	1	--------	--------
Total	--------	--------	--------	--------	--------	29	--------	--------
Net tonnage	--------	--------	--------	--------	--------	4, 942	--------	--------
Motor:								
5 to 10 tons	--------	--------	--------	--------	--------	32	--------	--------
11 to 20 tons	--------	--------	--------	3	--------	87	--------	--------
21 to 30 tons	--------	--------	--------	--------	--------	25	--------	--------
31 to 40 tons	--------	--------	--------	1	--------	22	--------	--------
41 to 50 tons	--------	--------	--------	--------	--------	22	--------	--------
51 to 60 tons	--------	--------	--------	--------	--------	21	--------	--------
61 to 70 tons	--------	--------	--------	--------	--------	13	--------	--------
71 to 80 tons	--------	--------	--------	--------	--------	7	--------	--------
81 to 90 tons	--------	--------	--------	--------	--------	8	--------	--------
91 to 100 tons	--------	--------	--------	--------	--------	3	--------	--------
101 to 110 tons	--------	--------	--------	--------	--------	5	--------	--------
111 to 120 tons	--------	--------	--------	--------	--------	12	--------	--------
121 to 130 tons	--------	--------	--------	--------	--------	4	--------	--------
141 to 150 tons	--------	--------	--------	--------	--------	4	--------	--------
151 to 160 tons	--------	--------	--------	--------	--------	1	--------	--------
161 to 170 tons	--------	--------	--------	--------	--------	3	--------	--------
171 to 180 tons	--------	--------	--------	--------	--------	3	--------	--------
181 to 190 tons	--------	--------	--------	--------	--------	1	--------	--------
Total	--------	--------	--------	4	--------	273	--------	--------
Net tonnage	--------	--------	--------	83	--------	11, 760	--------	--------
Total vessels	--------	--------	--------	4	--------	302	--------	--------
Total net tonnage	--------	--------	--------	83	--------	16, 702	--------	--------
Boats:								
Motor	33	--------	2	68	--------	44	75	16
Other	51	--------	10	105	112	--------	3	20
Apparatus:								
Number	50	4	18	203	117	346	3, 470	1, 105
Yards at mouth	--------	--------	--------	--------	--------	10, 399	--------	--------

Fisheries of Massachusetts, 1937—Continued

OPERATING UNITS: BY GEAR—Continued

Item	Pots—Continued		Harpoons	Spears	Dredges		
	Lobster	Periwinkle and cockle			Clam	Oyster	Scallop
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:							
On vessels	2		549		24	4	273
On boats and shore:							
Regular	1,036	4	44	10	91	35	840
Casual	61	1		12	9		825
Total	1,099	5	593	22	124	39	1,938
Vessels, motor:							
5 to 10 tons	1		7		2		4
11 to 20 tons			19		4	1	17
21 to 30 tons			6				7
31 to 40 tons			3				5
41 to 50 tons			7				1
51 to 60 tons			8				2
61 to 70 tons			6				
71 to 80 tons			6				
91 to 100 tons			1				
Total	1		63		6	1	36
Net tonnage	5		2,335		69	12	782
Boats:							
Motor	795	1	11		64	18	640
Other	86	4		14			196
Accessory boats			68				
Apparatus:							
Number	72,290	80	74	22	94	35	2,857
Yards at mouth					39	35	2,455

Item	Tongs		Rakes, other than for oysters	Forks	Hoes	By hand, other than for oysters	Total, exclusive of duplication
	Oyster	Other					
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:							
On vessels							4,258
On boats and shore:							
Regular	27	87	384	117	861	1	3,614
Casual	10	74	439	346	921	78	2,609
Total	37	1,61	823	463	1,782	79	10,481
Vessels:							
Steam:							
91 to 100 tons							7
111 to 120 tons							2
131 to 140 tons							1
161 to 170 tons							2
171 to 180 tons							1
181 to 190 tons							2
201 to 210 tons							10
211 to 220 tons							2
241 to 250 tons							1
261 to 270 tons							1
Total							29
Net tonnage							4,942
Motor:							
5 to 10 tons							42
11 to 20 tons							131
21 to 30 tons							41
31 to 40 tons							28
41 to 50 tons							28
51 to 60 tons							25
61 to 70 tons							25
71 to 80 tons							14
81 to 90 tons							8
91 to 100 tons							5
101 to 110 tons							5
111 to 120 tons							12
121 to 130 tons							5

Fisheries of Massachusetts, 1937—Continued

OPERATING UNITS: BY GEAR—Continued

Item	Tongs		Rakes, other than for oysters	Forks	Hoes	By hand, other than for oysters	Total, exclusive of duplication
	Oyster	Other					
Vessels—Continued.							
Motor—Continued.	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
141 to 150 tons							4
151 to 160 tons							1
161 to 170 tons							3
171 to 180 tons							3
181 to 190 tons							1
Total							381
Net tonnage							15, 160
Total vessels							410
Total net tonnage							20, 102
Boats:							
Motor	1	37	84		6		1, 754
Other	31	87	618	97	415	2	1, 675
Accessory boats							457
Apparatus, number	37	138	823	463	1, 782		

CATCH: BY GEAR

Species	Purse seines				Haul seines	
	Mackerel		Other			
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	72, 100	$626			210, 100	$1, 370
Bluefish					2, 000	204
Butterfish	96, 800	3, 686				
Cod	100	3				
Flounders, blackback					100	5
Grayfish	800	8				
Herring, sea	300	4				
Launce					264, 400	3, 302
Mackerel	11, 759, 400	537, 394				
Pollock	7, 300	90				
Shad	6, 400	264			2, 000	37
Sharks	9, 300	328				
Striped bass	7, 000	556			3, 000	265
Sturgeon	200	26				
Tuna	5, 000	201	132, 400	$5, 296		
Total	11, 964, 700	543, 186	132, 400	5, 296	481, 600	5, 183

Species	Gill nets				Lines			
	Anchor		Drift		Hand		Trawl	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives			19, 400	$164			100	$1
Bluefish	2, 000	$400	100	7	31, 000	$2, 435	500	48
Butterfish			10, 000	338			600	31
Cod	3, 139, 600	80, 339			170, 500	4, 187	16, 801, 700	386, 850
Cunners	27, 400	880						
Cusk	51, 000	948					8, 173, 800	150, 849
Eels, conger							300	3
Flounders:								
Gray sole	200	2					24, 800	1, 059
Lemon sole							2, 500	108
Yellowtail and dab	7, 700	99			1, 000	24	232, 900	8, 228
Blackback	1, 700	43			1, 100	61	129, 300	6, 230
Fluke	160, 000	6, 400					300	32
Unclassified	500	8						
Goosefish	10, 300	108			100	1		
Haddock	453, 700	15, 206			1, 400	36	17, 010, 000	509, 050
Hake	1, 134, 300	14, 512			1, 700	14	9, 196, 600	160, 620
Halibut	600	83			200	30	1, 882, 600	203, 281
Herring, sea	3, 300	29	1, 400	11				
Mackerel	2, 100	69	1, 624, 900	84, 254	9, 600	434		
Pollock	8, 605, 800	115, 258			208, 800	1, 898	1, 294, 400	21, 853
Rosefish	600	14					1, 700	22

Fisheries of Massachusetts, 1937—Continued

CATCH: BY GEAR—Continued

Species	Gill nets				Lines			
	Anchor		Drift		Hand		Trawl	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Scup or porgy					27, 300	$793	33, 100	$597
Sea bass					7, 900	402	5, 500	373
Shad	13, 700	$884	3, 900	$282				
Sharks	20, 300	505	6, 500	226				
Skates	100	1					2, 700	23
Smelt					1, 500	300		
Squeteagues or "sea trout," gray							100	9
Striped bass					35, 000	2, 750		
Sturgeon	1, 000	88	200	19				
Tautog	500	16			58, 900	2, 856		
Tilefish							15, 000	600
Tuna	4, 600	151	1, 500	57				
Whiting			400	5			32, 500	377
Wolffish	400	3					335, 700	7, 943
Squid			100	1			600	17
Total	13, 641, 400	236, 046	1, 668, 400	85, 364	556, 000	16, 221	55, 177, 300	1, 458, 204

Species	Pound nets		Floating traps		Weirs		Fyke nets	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	31, 800	$425	18, 500	$187	232, 600	$1, 883	500	$5
Anchovies	200	4						
Bluefish	7, 100	582	1, 200	65				
Bonito	4, 100	287	500	28				
Butterfish	664, 700	31, 846	182, 800	9, 685				
Cod	14, 500	382	46, 100	958				
Eels, common	2, 700	292	600	48			12, 400	1, 138
Flounders:								
Blackback	600	24					1, 200	200
Fluke	10, 700	519	200	15			300	13
Grayfish	19, 700	355						
Herring, sea	726, 700	7, 020	405, 700	3, 443				
King whiting or "kingfish"	100	11						
Launce	4, 100	81						
Mackerel	5, 964, 800	207, 429	1, 748, 700	53, 184				
Menhaden	39, 000	357						
Pollock	304, 300	2, 988	430, 400	3, 032				
Salmon			4, 400	287				
Scup or porgy	98, 700	910	2, 800	52				
Sea bass	9, 700	738	8, 600	286				
Sea robin	12, 900	145	400	7				
Shad	7, 600	350	10, 600	270				
Sharks	35, 500	457	2, 000	29				
Skates	1, 600	21						
Skipper or "billfish"	600	68						
Squeteagues or "sea trout," gray	10, 600	669						
Striped bass	26, 300	2, 425	27, 900	1, 792				
Sturgeon	1, 500	156	1, 300	100				
Tautog	11, 900	436	11, 200	503				
Tuna	425, 100	12, 505	115, 500	4, 454				
Turbot	100	3						
White perch	1, 600	16						
Whiting	10, 212, 600	93, 924	3, 421, 600	27, 231				
Squid	1, 660, 200	20, 001	161, 000	2, 970				
Total	20, 311, 600	385, 426	6, 602, 000	108, 626	232, 600	1, 883	14, 400	1, 356

Fisheries of Massachusetts, 1937—Continued

CATCH: BY GEAR—Continued

Species	Dip nets		Push nets		Otter trawls		Pots, crab	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	496, 600	$3, 570			4, 200	$52		
Bluefish					3, 000	278		
Butterfish					1, 295, 500	41, 821		
Carp	1, 000	40						
Cod					106, 155, 100	1, 999, 506		
Croaker					866, 400	28, 057		
Cunners					400	14		
Cusk					393, 700	7, 001		
Drum, red					2, 800	16		
Eels:								
Common					1, 300	130		
Conger					45, 300	666		
Flounders:								
Gray sole					9, 960, 000	474, 089		
Lemon sole					3, 266, 200	226, 658		
Yellowtail and dab					16, 366, 200	368, 891		
Blackback					5, 407, 000	211, 094		
Fluke					1, 788, 900	160, 113		
Unclassified					747, 200	23, 340		
Goosefish					6, 200	69		
Grayfish					7, 100	165		
Haddock					149, 118, 400	3, 548, 675		
Hake					6, 941, 600	107, 536		
Halibut					532, 300	49, 752		
Herring, sea	1, 754, 300	17, 448			2, 700	55		
Herring smelt					10, 200	167		
King whiting or "kingfish"					11, 500	304		
Mackerel					56, 200	3, 328		
Pollock					19, 763, 000	314, 648		
Rosefish					58, 213, 300	886, 470		
Scup or porgy					8, 072, 600	173, 590		
Sea bass					2, 314, 200	123, 915		
Sea robin					42, 400	677		
Shad					4, 200	199		
Sharks					15, 100	444		
Skates					36, 700	521		
Spot					1, 300	17		
Squeteagues or "sea trout," gray					117, 500	5, 165		
Striped bass					21, 400	1, 983		
Sturgeon					3, 100	273		
Tautog					1, 400	79		
Tilefish					600	31		
Tuna					100	4		
White perch					600	13		
Whiting					7, 370, 700	117, 677		
Wolffish					2, 188, 800	40, 508		
Crabs, hard							968, 400	$23, 776
Lobsters					4, 400	368		
Shrimp					6, 800	475		
Scallops:								
Bay	63, 500	21, 112	63, 000	$21, 000	2, 000	900		
Sea					7, 100	994		
Squid					92, 400	1, 899		
Total	2, 315, 400	42, 170	63, 000	21, 000	401, 269, 100	8, 922, 627	968, 400	23, 776

Species	Pots—Continued					
	Eel		Lobster		Periwinkle and cockle	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Eels, common	69, 900	$6, 109				
Crabs, hard			597, 300	$16, 507		
Lobsters			2, 130, 500	559, 923		
Periwinkles and cockles					8, 600	$507
Total	69, 900	6, 109	2, 727, 800	576, 430	8, 600	507

Fisheries of Massachusetts, 1937—Continued

CATCH: BY GEAR—Continued

Species	Harpoons		Spears		Dredges		Tongs	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Eels, common			5, 800	$467				
Swordfish	1, 413, 200	$229, 273						
Tuna	800	32						
Clams:								
Hard, public					378, 200	$37, 816	117, 900	$9, 478
Hard, private							5, 000	363
Oysters, market:								
Public, spring					400	100	23, 000	8, 125
Private, spring					55, 000	18, 603	129, 300	49, 175
Periwinkles and cockles					900	75		
Scallops:								
Bay					1, 079, 000	185, 065		
Sea					4, 969, 800	552, 502		
Total	1, 414, 000	229, 305	5, 800	467	6, 483, 300	794, 161	275, 200	67, 141

Species	Rakes		Forks		Hoes		By hand	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Clams:								
Hard, public	778, 400	$60, 243	19, 200	$1, 309	6, 800	$486		
Hard, private	5, 000	363						
Razor					725, 500	18, 888		
Soft, public			309, 400	28, 145	5, 204, 700	463, 182		
Soft, private					52, 500	4, 375		
Surf, or skimmer	1, 700	100						
Scallops, bay	84, 600	27, 540						
Irish moss							182, 400	$16, 193
Kelp							120, 000	720
Bloodworms			24, 200	5, 800	3, 200	771		
Sandworms			174, 900	31, 520	35, 000	7, 340		
Total	869, 700	88, 246	527, 700	66, 774	6, 027, 700	495, 042	302, 400	16, 913

OPERATING UNITS: BY COUNTIES

Item	Barnstable	Bristol	Dukes	Essex	Nantucket	Norfolk	Plymouth	Suffolk
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	132	358	58	1, 502	58			2, 150
On boats and shore:								
Regular	786	326	316	964	143	83	516	480
Casual	587	532	317	368	30	155	336	284
Total	1, 505	1, 216	691	2, 834	231	238	852	2, 914
Vessels:								
Steam:								
91 to 100 tons								7
111 to 120 tons								2
131 to 140 tons								1
161 to 170 tons								2
171 to 180 tons								1
181 to 190 tons				1				1
201 to 210 tons								10
211 to 220 tons								2
241 to 250 tons								1
261 to 270 tons								1
Total				1				28
Net tonnage				184				4, 758

Fisheries of Massachusetts, 1937—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Barnstable	Bristol	Dukes	Essex	Nantucket	Norfolk	Plymouth	Suffolk
Vessels—Continued.								
Motor:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
5 to 10 tons	11	9	4	11	3	--------	--------	4
11 to 20 tons	12	18	3	33	8	--------	--------	57
21 to 30 tons	2	7	2	19	--------	--------	--------	11
31 to 40 tons	--------	6	2	12	1	--------	--------	7
41 to 50 tons	--------	6	--------	16	--------	--------	--------	6
51 to 60 tons	--------	2	--------	14	--------	--------	--------	9
61 to 70 tons	1	2	--------	15	--------	--------	--------	7
71 to 80 tons	--------	--------	--------	9	--------	--------	--------	5
81 to 90 tons	--------	--------	--------	1	--------	--------	--------	7
91 to 100 tons	--------	--------	--------	2	--------	--------	--------	3
101 to 110 tons	--------	--------	--------	1	--------	--------	--------	4
111 to 120 tons	--------	--------	--------	--------	--------	--------	--------	12
121 to 130 tons	--------	--------	--------	--------	--------	--------	--------	5
141 to 150 tons	--------	--------	--------	--------	--------	--------	--------	4
151 to 160 tons	--------	--------	--------	--------	--------	--------	--------	1
161 to 170 tons	--------	--------	--------	--------	--------	--------	--------	3
171 to 180 tons	--------	--------	--------	--------	--------	--------	--------	3
181 to 190 tons	--------	--------	--------	--------	--------	--------	--------	1
Total	26	50	11	133	12	--------	--------	149
Net tonnage	370	1, 228	201	4, 963	174	--------	--------	8, 224
Total vessels	26	50	11	134	12	--------	--------	177
Total net tonnage	370	1, 228	201	5, 147	174	--------	--------	12, 982
Boats:								
Motor	416	314	165	391	92	36	230	110
Other	463	231	349	262	15	15	230	110
Accessory boats	17	21	4	260	--------	--------	--------	155
Apparatus:								
Purse seines:								
Mackerel	4	1	--------	47	--------	--------	1	24
Length, yards	1, 720	520	--------	22, 442	--------	--------	300	11, 020
Other	--------	--------	--------	2	--------	--------	--------	--------
Length, yards	--------	--------	--------	1, 000	--------	--------	--------	--------
Haul seines	2	--------	2	9	--------	--------	1	--------
Length, yards	60	--------	8	395	--------	--------	25	--------
Gill nets:								
Anchor	140	--------	--------	1, 291	12	--------	--------	32
Square yards	32, 000	--------	--------	460, 296	4, 800	--------	--------	14, 440
Drift	218	77	--------	2, 782	36	--------	30	456
Square yards	78, 720	22, 176	--------	833, 391	10, 200	--------	8, 300	132, 794
Lines:								
Hand	57	185	32	94	28	--------	2	4
Hooks	114	370	61	448	56	--------	4	8
Trawl	1, 800	40	30	13, 231	--------	--------	220	13, 699
Hooks	92, 400	2, 000	1, 500	656, 567	--------	--------	11, 000	820, 351
Pound nets	70	7	7	3	--------	--------	--------	--------
Floating traps	11	--------	--------	39	--------	--------	--------	--------
Weirs	--------	--------	--------	1	--------	--------	3	--------
Fyke nets	16	--------	2	--------	--------	--------	--------	--------
Dip nets	102	--------	54	29	--------	--------	9	9
Push nets	--------	--------	117	--------	--------	--------	--------	--------
Otter trawls	41	47	10	80	17	--------	2	149
Yards at mouth	1, 120	1, 365	271	2, 548	439	--------	48	4, 608
Pots:								
Crab	--------	68	--------	698	--------	832	350	1, 522
Eel	59	131	415	140	360	--------	--------	--------
Lobster	3, 880	2, 730	6, 595	26, 172	567	3, 870	20, 347	8, 129
Periwinkle and cockle	--------	10	--------	50	20	--------	--------	--------
Harpoons	2	15	8	34	--------	--------	--------	15
Spears	--------	6	10	6	--------	--------	--------	--------
Dredges:								
Clam	33	40	7	--------	13	--------	1	--------
Yards at mouth	12	16	4	--------	6	--------	1	--------
Oyster	11	--------	--------	--------	--------	--------	24	--------
Yards at mouth	11	--------	--------	--------	--------	--------	24	--------
Scallop	780	888	624	10	311	--------	239	5
Yards at mouth	656	914	509	35	124	--------	200	17
Tongs:								
Oyster	31	6	--------	--------	--------	--------	--------	--------
Other	5	91	--------	--------	2	--------	40	--------
Rakes, other than for oysters	460	83	201	--------	4	--------	75	--------
Forks	--------	--------	10	113	--------	--------	--------	340
Hoes	457	46	17	555	19	185	503	--------

Fisheries of Massachusetts, 1937—Continued

CATCH: BY COUNTIES

Species	Barnstable		Bristol		Dukes		Essex	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	33, 100	$335	-----	-----	61, 100	$436	231, 900	$2, 142
Anchovies	200	4	-----	-----	-----	-----	-----	-----
Bluefish	10, 000	863	100	$6	6, 300	449	2, 700	215
Bonito	1, 800	125	100	10	2, 300	157	400	23
Butterfish	700, 500	34, 141	178, 300	8, 453	36, 600	2, 323	328, 800	15, 162
Carp	-----	-----	-----	-----	1, 000	40	-----	-----
Cod	2, 086, 600	49, 137	4, 798, 300	106, 791	29, 400	580	14, 735, 700	325, 442
Croaker	-----	-----	100	4	1, 500	36	752, 900	23, 671
Cunners	-----	-----	-----	-----	-----	-----	27, 500	883
Cusk	211, 500	3, 611	-----	-----	-----	-----	5, 210, 300	96, 721
Drum, red	-----	-----	-----	-----	-----	-----	2, 800	16
Eels:								
Common	19, 900	1, 688	22, 400	1, 152	40, 500	4, 603	6, 300	417
Conger	-----	-----	1, 700	36	1, 200	12	30, 900	462
Flounders:								
Gray sole	226, 600	14, 101	1, 644, 300	118, 024	5, 000	230	1, 650, 900	77, 254
Lemon sole	93, 100	8, 779	642, 900	54, 728	2, 000	200	252, 600	17, 306
Yellowtail and dab	1, 555, 800	35, 926	5, 216, 500	120, 064	1, 057, 000	25, 124	2, 511, 700	55, 106
Blackback	868, 500	32, 992	1, 225, 200	49, 491	235, 000	8, 600	446, 100	18, 915
Fluke	178, 100	7, 398	504, 200	49, 725	20, 400	2, 162	877, 500	74, 361
Unclassified	-----	-----	12, 200	386	-----	-----	72, 200	3, 200
Goosefish	-----	-----	-----	-----	-----	-----	16, 300	174
Grayfish	19, 700	355	-----	-----	-----	-----	6, 500	131
Haddock	1, 183, 000	35, 347	8, 036, 900	194, 983	31, 400	565	17, 879, 600	482, 010
Hake	148, 500	3, 464	135, 600	2, 036	2, 100	32	8, 217, 100	130, 769
Halibut	13, 700	1, 753	10, 100	819	-----	-----	1, 548, 700	166, 130
Herring, sea	876, 400	8, 276	500	6	-----	-----	1, 115, 400	12, 934
King whiting or "kingfish"	100	11	-----	-----	900	30	10, 600	274
Launce	4, 100	81	-----	-----	-----	-----	264, 400	3, 302
Mackerel	7, 263, 700	249, 522	106, 800	5, 188	102, 300	2, 089	10, 490, 400	467, 668
Menhaden	39, 000	357	-----	-----	-----	-----	-----	-----
Pollock	443, 600	5, 104	73, 000	846	-----	-----	13, 450, 300	186, 099
Rosefish	1, 100	13	-----	-----	-----	-----	19, 380, 000	281, 802
Salmon	-----	-----	-----	-----	-----	-----	4, 400	287
Scup or porgy	43, 700	487	214, 200	4, 682	68, 900	753	5, 379, 500	112, 395
Sea bass	7, 400	640	35, 000	1, 682	9, 300	465	1, 562, 300	78, 657
Sea robin	13, 300	152	-----	-----	-----	-----	36, 100	573
Shad	8, 400	360	400	17	100	11	38, 700	1, 882
Sharks	14, 800	272	-----	-----	23, 100	223	39, 500	1, 097
Skates	-----	-----	1, 700	23	-----	-----	26, 600	362
Skipper or "billfish"	600	68	-----	-----	-----	-----	-----	-----
Smelt	-----	-----	-----	-----	-----	-----	1, 500	300
Spot	-----	-----	-----	-----	-----	-----	1, 300	17
Squeteagues or "sea trout," gray	4, 200	324	2, 100	90	5, 300	318	110, 400	4, 580
Striped bass	28, 700	2, 636	1, 200	104	30, 000	2, 400	27, 300	1, 742
Sturgeon	1, 400	156	-----	-----	-----	-----	4, 000	368
Swordfish	6, 000	772	150, 500	22, 789	104, 500	15, 377	1, 027, 000	170, 422
Tautog	11, 300	436	54, 800	2, 553	6, 100	362	10, 700	455
Tilefish	-----	-----	15, 000	600	-----	-----	-----	-----
Tuna	535, 800	16, 746	-----	-----	100	5	149, 100	5, 949
Turbot	100	3	-----	-----	-----	-----	-----	-----
White perch	-----	-----	1, 600	16	-----	-----	600	13
Whiting	11, 811, 500	108, 917	199, 900	2, 064	-----	-----	3, 264, 700	36, 284
Wolffish	68, 900	1, 019	7, 400	186	-----	-----	225, 600	5, 492
Crabs, hard	-----	-----	1, 000	70	-----	-----	347, 600	9, 512
Lobsters	87, 200	30, 383	58, 200	14, 431	163, 800	40, 719	811, 900	204, 663
Clams:								
Hard, public	616, 700	48, 687	346, 900	27, 998	83, 900	6, 378	-----	-----
Razor	630, 600	14, 488	-----	-----	-----	-----	-----	-----
Soft, public	852, 100	74, 404	49, 900	5, 198	32, 800	2, 840	3, 181, 100	284, 566
Surf or skimmer	-----	-----	-----	-----	1, 700	100	-----	-----
Oysters, market:								
Public, spring	20, 100	7, 600	3, 300	625	-----	-----	-----	-----
Private, spring	163, 900	62, 350	-----	-----	-----	-----	-----	-----
Periwinkles and cockles	-----	-----	200	27	-----	-----	1, 200	180
Scallops:								
Bay	837, 500	105, 706	135, 400	43, 400	230, 400	76, 921	-----	-----
Sea	18, 500	2, 142	3, 411, 700	381, 816	525, 100	57, 885	683, 900	72, 536
Squid	1, 637, 400	19, 566	86, 700	1, 314	23, 600	272	159, 900	3, 555
Irish moss	-----	-----	-----	-----	-----	-----	5, 400	293
Kelp	-----	-----	-----	-----	-----	-----	120, 000	720
Bloodworms	-----	-----	-----	-----	-----	-----	5, 100	1, 221
Sandworms	-----	-----	-----	-----	-----	-----	44, 300	8, 540
Total	33, 398, 700	991, 697	27, 386, 300	1, 222, 433	2, 944, 700	252, 697	116, 790, 200	3, 449, 250

Fisheries of Massachusetts, 1937—Continued

CATCH: BY COUNTIES—Continued

Species	Nantucket		Norfolk		Plymouth		Suffolk	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives					430, 400	$2, 721	329, 400	$2, 649
Bluefish	27, 100	$2, 407					700	79
Butterfish	300	10					1, 005, 900	27, 318
Cod	1, 384, 200	47, 206			105, 300	4, 500	103, 188, 100	1, 938, 569
Croaker							111, 900	4, 346
Cunners							300	11
Cusk							3, 196, 700	58, 466
Eels:								
Common	3, 600	324						
Conger	100	1					11, 700	158
Flounders:								
Gray sole	281, 500	19, 204					6, 176, 700	246, 337
Lemon sole	54, 400	5, 836					2, 223, 700	139, 917
Yellowtail and dab	771, 400	18, 499			40, 000	600	5, 455, 400	121, 923
Blackback	1, 651, 500	64, 044			40, 000	1, 800	1, 074, 700	41, 815
Fluke	78, 800	8, 400					301, 400	25, 046
Unclassified							663, 300	19, 762
Goosefish							300	4
Grayfish							1, 400	42
Haddock	449, 000	9, 555			34, 200	1, 200	138, 969, 400	3, 349, 307
Hake	10, 600	220					8, 760, 300	146, 161
Halibut	1, 000	137					842, 200	84, 307
Herring, sea					900, 000	6, 750	2, 100	44
Herring smelt							10, 200	167
Mackerel	12, 100	233			12, 000	480	3, 178, 400	160, 912
Pollock	1, 200	21					16, 645, 900	267, 697
Rosefish							38, 834, 500	604, 691
Scup or porgy	100	1			500	10	2, 527, 600	57, 614
Sea bass					1, 000	50	730, 900	44, 220
Sea robin							6, 300	104
Shad							800	16
Sharks							11, 300	397
Skates							12, 800	181
Squeteagues or "sea trout," gray							6, 200	531
Striped bass	5, 100	353					28, 300	2, 536
Sturgeon	200	22					1, 700	116
Swordfish							125, 200	19, 913
Tautog					900	77	100	7
Tilefish							600	31
Whiting					3, 000	27	5, 758, 700	91, 922
Wolffish	100	1					2, 222, 900	41, 756
Crabs, hard			13, 600	$379	186, 500	5, 819	1, 017, 000	24, 503
Lobsters	15, 600	4, 655	140, 000	38, 990	526, 400	136, 299	331, 800	90, 151
Shrimp							6, 800	475
Clams:								
Hard, public	218, 000	23, 826	2, 700	109	32, 300	2, 334		
Hard, private					10, 000	726		
Razor					94, 900	4, 400		
Soft, public	10, 700	2, 235	64, 500	7, 347	1, 295, 700	112, 088	27, 300	2, 649
Soft, private					52, 500	4, 375		
Oysters, market, private, spring					20, 400	5, 428		
Periwinkles and cockles	7, 200	300			900	75		
Scallops:								
Bay	57, 900	19, 290			30, 900	10, 300		
Sea	400	59					337, 300	39, 058
Squid							6, 700	181
Irish moss					177, 000	15, 900		
Bloodworms			4, 200	1, 000	3, 100	750	15, 000	3, 600
Sandworms			50, 000	9, 000	8, 300	2, 000	107, 300	19, 320
Total	5, 042, 100	226, 839	275, 000	56, 825	4, 006, 200	318, 709	344, 267, 200	7, 679, 009

RHODE ISLAND

Fisheries of Rhode Island, 1937

OPERATING UNITS: BY GEAR

Item	Haul seines	Gill nets		Lines				Pound nets	Floating traps
		Anchor	Drift	Hand	Trawl	Troll	Trot with hooks		
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	--------	--------	12	47	2	7	--------	--------	92
On boats and shore:									
Regular	8	1	2	82	16	39	1	24	45
Casual	57	--------	--------	25	8	7	1	9	--------
Total	65	1	14	154	26	53	2	33	137
Vessels:									
Steam:									
5 to 10 tons	--------	--------	--------	--------	--------	--------	--------	--------	2
11 to 20 tons	--------	--------	--------	--------	--------	--------	--------	--------	1
Total	--------	--------	--------	--------	--------	--------	--------	--------	3
Net tonnage	--------	--------	--------	--------	--------	--------	--------	--------	31
Motor:									
5 to 10 tons	--------	--------	1	20	1	3	--------	--------	2
11 to 20 tons	--------	--------	--------	3	--------	1	--------	--------	2
21 to 30 tons	--------	--------	1	--------	--------	--------	--------	--------	1
Total	--------	--------	2	23	1	4	--------	--------	5
Net tonnage	--------	--------	31	173	10	34	--------	--------	62
Total vessels	--------	--------	2	23	1	4	--------	--------	8
Total net tonnage	--------	--------	31	173	10	34	--------	--------	93
Boats:									
Motor	--------	--------	1	53	14	33	--------	2	1
Other	16	1	--------	30	1	--------	2	22	27
Accessory boats	--------	--------	2	11	--------	--------	--------	3	20
Apparatus:									
Number	16	4	28	244	69	117	3	36	36
Length, yards	2,262	--------	--------	--------	--------	--------	--------	--------	--------
Square yards	--------	464	30,480	--------	--------	--------	--------	--------	--------
Hooks or baits	--------	--------	--------	434	28,643	117	500	--------	--------

Item	Fyke nets	Dip nets	Otter trawls	Pots				Harpoon	Spears	Dredges, clam
				Crab	Eel	Lobster	Periwinkle and cockle			
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	-------	-------	60	-------	-------	39	-------	73	-------	23
On boats and shore:										
Regular	3	2	33	2	4	146	11	37	22	6
Casual	-------	8	4	-------	24	100	9	4	12	12
Total	3	10	97	2	28	285	20	114	34	41
Vessels:										
Steam; 11 to 20 tons	-------	-------	-------	-------	-------	-------	-------	-------	-------	1
Net tonnage	-------	-------	-------	-------	-------	-------	-------	-------	-------	13
Motor:										
5 to 10 tons	-------	-------	24	-------	-------	18	-------	27	-------	5
11 to 20 tons	-------	-------	4	-------	-------	1	-------	3	-------	3
21 to 30 tons	-------	-------	1	-------	-------	-------	-------	-------	-------	-------
Total	-------	-------	29	-------	-------	19	-------	30	-------	8
Net tonnage	-------	-------	247	-------	-------	135	-------	228	-------	79
Total vessels	-------	-------	29	-------	-------	19	-------	30	-------	9
Total net tonnage	-------	-------	247	-------	-------	135	-------	228	-------	92
Boats:										
Motor	2	-------	20	1	10	137	14	20	1	9
Other	-------	9	-------	-------	14	33	2	-------	12	-------
Accessory boats	-------	-------	-------	-------	-------	-------	-------	34	-------	-------
Apparatus:										
Number	105	10	49	30	858	29,270	875	50	34	18
Yards at mouth	-------	-------	1,143	-------	-------	-------	-------	-------	-------	15

Fisheries of Rhode Island, 1937—Continued

OPERATING UNITS: BY GEAR—Continued

Item	Dredges			Tongs		Rakes		Forks	Hoes	By hand, other than for oysters	Total, exclusive of duplication
	Mussel	Oyster	Scallop	Oyster	Other	Oyster	Other				
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:											
On vessels		90	3								289
On boats and shore:											
Regular	6		146	27	162	15	32	8	13		429
Casual			128	21	410	22	71	18	43	17	768
Total	6	90	277	48	572	37	103	26	56	17	1,486
Vessels:											
Steam:											
5 to 10 tons											2
11 to 20 tons											1
21 to 30 tons		1									1
41 to 50 tons		1									1
51 to 60 tons		1									1
Total		3									6
Net tonnage		126									157
Motor:											
5 to 10 tons		3									46
11 to 20 tons		8	1								16
21 to 30 tons		2									3
31 to 40 tons		1									1
51 to 60 tons		2									2
Total		16	1								68
Net tonnage		358	11								788
Total vessels		19	1								74
Total net tonnage		484	11								945
Boats:											
Motor	3		137	20	114	7	19				357
Other			5	27	428	30	55	6	4		625
Accessory boats											62
Apparatus:											
Number	4	37	705	48	572	37	103	15	56		
Yards at mouth	4	55	574								

CATCH: BY GEAR

Species	Haul seines		Gill nets				Hand lines	
			Anchor		Drift			
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	137,400	$1,374						
Bluefish	17,200	1,380			2,500	$200		
Cod							862,700	$25,856
Eels, common	49,400	3,698					14,400	1,575
Flounders:								
Blackback	1,000	30						
Yellowtail and dab	400	20						
Fluke	800	80						
Herring, sea	16,000	80						
Mackerel					10,500	350		
Pollock					139,000	1,738	28,600	341
Scup or porgy	200	2						
Silversides	400	4						
Squeteagues or "sea trout," gray	16,500	1,440			1,600	100		
Striped bass	77,300	4,516	500	$80			2,000	120
Tautog	700	29					25,800	1,016
White perch			1,000	180				
Whiting	400	8						
Squid	2,000	40						
Total	319,700	12,701	1,500	260	153,600	2,388	933,500	28,908

Fisheries of Rhode Island, 1937—Continued

CATCH: BY GEAR—Continued

Species	Lines						Pound nets	
	Trawl		Troll		Trot with hooks			
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	-----	-----	-----	-----	-----	-----	80,800	$542
Bluefish	-----	-----	73,200	$6,336	-----	-----	900	75
Butterfish	-----	-----	-----	-----	-----	-----	114,000	3,888
Cod	165,400	$4,615	-----	-----	-----	-----	-----	-----
Eels, common	-----	-----	-----	-----	2,600	$210	27,900	1,977
Flounders:								
Yellowtail and dab	-----	-----	-----	-----	-----	-----	700	31
Blackback	-----	-----	-----	-----	-----	-----	21,400	704
Fluke	-----	-----	-----	-----	-----	-----	11,900	436
Grayfish	2,000	30	-----	-----	-----	-----	-----	-----
Herring, sea	-----	-----	-----	-----	-----	-----	13,900	139
Mackerel	-----	-----	157,100	4,601	-----	-----	18,400	777
Menhaden	-----	-----	-----	-----	-----	-----	88,000	697
Scup or porgy	-----	-----	-----	-----	-----	-----	13,200	254
Sea robin	-----	-----	-----	-----	-----	-----	10,000	50
Shad	-----	-----	-----	-----	-----	-----	4,200	405
Skates	100	3	-----	-----	-----	-----	-----	-----
Squeteagues or "sea trout," gray	100	8	200	15	-----	-----	12,600	864
Striped bass	-----	-----	30,200	1,872	-----	-----	500	50
Tautog	-----	-----	-----	-----	-----	-----	43,700	1,758
Tuna	-----	-----	300	15	-----	-----	-----	-----
Whiting	-----	-----	-----	-----	-----	-----	23,600	331
Squid	-----	-----	-----	-----	-----	-----	119,800	2,018
Total	167,600	4,656	261,000	12,839	2,600	210	605,500	14,996

Species	Floating traps		Fyke nets		Dip nets		Otter trawls	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Anchovies	32,000	$290	-----	-----	-----	-----	-----	-----
Bluefish	46,300	2,265	-----	-----	-----	-----	-----	-----
Bonito	43,000	3,733	-----	-----	-----	-----	-----	-----
Butterfish	456,400	15,143	-----	-----	-----	-----	-----	-----
Cod	20,400	494	-----	-----	-----	-----	18,600	$533
Crevalle	2,000	20	-----	-----	-----	-----	-----	-----
Cunners	4,700	81	-----	-----	-----	-----	9,400	94
Eels:								
Common	-----	-----	12,000	$600	-----	-----	-----	-----
Conger	15,900	439	-----	-----	-----	-----	-----	-----
Flounders:								
Yellowtail and dab	34,600	831	-----	-----	-----	-----	508,900	10,026
Blackback	112,700	4,508	-----	-----	-----	-----	1,046,300	33,345
Fluke	46,000	2,677	-----	-----	-----	-----	32,600	1,358
Grayfish	2,000	20	-----	-----	-----	-----	-----	-----
Haddock	-----	-----	-----	-----	-----	-----	1,200	39
Hake	6,600	120	-----	-----	-----	-----	11,300	128
Herring, sea	75,700	908	-----	-----	-----	-----	90,000	1,620
Hickory shad	11,100	174	-----	-----	-----	-----	-----	-----
King whiting or "kingfish"	2,900	118	-----	-----	-----	-----	-----	-----
Mackerel	408,300	14,104	-----	-----	-----	-----	-----	-----
Menhaden	41,000	159	-----	-----	-----	-----	-----	-----
Pollock	40,800	815	-----	-----	-----	-----	41,700	677
Scup or porgy	1,665,000	32,728	-----	-----	-----	-----	-----	-----
Sea bass	914,500	10,020	-----	-----	-----	-----	-----	-----
Sea robin	60,400	422	-----	-----	-----	-----	32,200	222
Shad	600	62	-----	-----	-----	-----	-----	-----
Sharks	3,300	52	-----	-----	-----	-----	100	3
Skates	39,600	268	-----	-----	-----	-----	262,400	1,228
Spot	400	8	-----	-----	-----	-----	-----	-----
Squeteagues or "sea trout," gray	33,200	2,207	-----	-----	-----	-----	-----	-----
Striped bass	206,600	18,147	-----	-----	-----	-----	-----	-----
Sturgeon	900	76	-----	-----	-----	-----	-----	-----
Tautog	25,300	660	3,200	96	-----	-----	800	32
Thimble-eyed mackerel	4,700	94	-----	-----	-----	-----	-----	-----
Tuna	41,900	2,976	-----	-----	-----	-----	-----	-----
Whiting	682,300	6,217	-----	-----	-----	-----	310,700	3,430
Crabs:								
Hard	1,500	44	-----	-----	1,200	$150	3,500	105
Soft and peelers	-----	-----	-----	-----	400	150	-----	-----
Lobsters	-----	-----	-----	-----	-----	-----	100	23
Oysters, market, public, fall	-----	-----	-----	-----	100	10	-----	-----
Scallops:								
Bay	-----	-----	-----	-----	1,600	236	-----	-----
Sea	-----	-----	-----	-----	-----	-----	2,700	236
Squid	1,214,900	14,289	-----	-----	-----	-----	10,800	216
Total	5,529,500	135,169	15,200	696	3,300	546	2,383,300	53,315

Fisheries of Rhode Island, 1937—Continued

CATCH: BY GEAR—Continued

Species	Pots							
	Crab		Eel		Lobster		Periwinkle and cockle	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Eels, common			57, 200	$4, 936				
Crabs:								
Hard					326, 200	$9, 674		
Rock	1, 500	$75	100	5				
Lobsters					773, 700	178, 060		
Periwinkles and cockles					300	15	60, 100	$1, 617
Total	1, 500	75	57, 300	4, 941	1, 100, 200	187, 749	60, 100	1, 617

Species	Harpoons		Spears		Dredges		Tongs	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Eels, common			13, 900	$1, 334				
Swordfish	333, 500	$43, 603						
Clams:								
Hard, public					131, 100	$14, 444	1, 817, 400	$232, 165
Hard, private					65, 100	7, 943	1, 800	262
Mussels, sea					5, 000	479		
Oysters, market:								
Public, spring							1, 200	333
Public, fall					12, 300	2, 556	15, 700	1, 906
Private, spring					1, 839, 400	232, 242	2, 200	481
Private, fall					2, 379, 700	323, 287	2, 200	481
Scallops, bay					97, 800	19, 123		
Starfish					12, 000	840		
Total	333, 500	43, 603	13, 900	1, 334	4, 542, 400	600, 914	1, 840, 500	235, 628

Species	Rakes		Forks		Hoes		By hand	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Clams:								
Hard, public	265, 900	$33, 464						
Soft, public			73, 800	$4, 960	79, 500	$5, 662	17, 100	$1, 071
Surf or skimmer					8, 000	670		
Oysters, market:								
Public, spring	36, 000	4, 507						
Public, fall	41, 400	5, 085						
Total	343, 300	43, 056	73, 800	4, 960	87, 500	6, 332	17, 100	1, 071

OPERATING UNITS: BY COUNTIES

Item	Bristol	Kent	Newport	Providence	Washington
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	53	3	179	23	31
On boats and shore:					
Regular	47	112	144	10	116
Casual	108	240	204	43	173
Total	208	355	527	76	320
Vessels:					
Steam:					
5 to 10 tons			2		
11 to 20 tons			1		
21 to 30 tons	1				
41 to 50 tons	1				
51 to 60 tons	1				
Total	3		3		
Net tonnage	126		31		

Fisheries of Rhode Island, 1937—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Bristol	Kent	Newport	Providence	Washington
Vessels—Continued.					
Motor:	*Number*	*Number*	*Number*	*Number*	*Number*
5 to 10 tons	3	---	34	1	8
11 to 20 tons	3	1	8	1	3
21 to 30 tons	1	---	1	1	---
31 to 40 tons	1	---	---	---	---
51 to 60 tons	---	---	---	2	---
Total	8	1	43	5	11
Net tonnage	147	11	370	162	98
Total vessels	11	1	46	5	11
Total net tonnage	273	11	401	162	98
Boats:					
Motor	32	96	149	10	70
Other	107	254	84	40	140
Accessory boats	---	---	51	1	10
Apparatus:					
Haul seines	3	---	---	2	11
Length, yards	135	---	---	150	1, 977
Gill nets:					
Anchor	---	---	---	---	4
Square yards	---	---	---	---	464
Drift	---	---	26	---	2
Square yards	---	---	26, 280	---	4, 200
Lines:					
Hand	4	20	182	4	34
Hooks	8	20	340	4	62
Trawl	2	---	33	---	34
Hooks	2, 000	---	12, 925	---	13, 718
Troll	---	---	68	---	49
Hooks	---	---	68	---	49
Trot with hooks	---	---	---	1	2
Hooks	---	---	---	200	300
Pound nets	2	3	26	---	5
Floating traps	---	---	24	---	12
Fyke nets	---	5	100	---	---
Dip nets	---	---	---	---	10
Otter trawls	---	---	30	---	19
Yards at mouth	---	---	736	---	407
Pots:					
Crab	---	---	---	---	30
Eel	50	187	50	130	441
Lobster	1, 845	820	18, 489	---	8, 116
Periwinkle and cockle	170	---	265	---	440
Harpoons	---	---	41	1	8
Spears	1	20	---	7	6
Dredges:					
Clam	---	---	16	1	1
Yards at mouth	---	---	13	1	1
Mussel	2	2	---	---	---
Yards at mouth	2	2	---	---	---
Oyster	22	2	1	8	4
Yards at mouth	33	3	1	12	6
Scallops	68	289	209	24	115
Yards at mouth	53	244	164	19	94
Tongs:					
Oyster	---	36	1	---	11
Other	128	288	52	43	61
Rakes:					
Oyster	---	12	1	---	24
Other	---	48	35	---	20
Forks	---	4	---	2	9
Hoes	18	6	15	4	13

Fisheries of Rhode Island, 1937—Continued

CATCH: BY COUNTIES

Species	Bristol		Kent		Newport		Providence		Washington	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	22, 500	$200			58, 300	$342			137, 400	$1, 374
Anchovies					32, 000	290				
Bluefish					60, 000	4, 393			80, 100	5, 863
Bonito					39, 600	3, 643			3, 400	90
Butterfish			2, 500	$125	471, 800	16, 162			96, 100	2, 744
Cod	100	4			946, 300	28, 539			120, 700	2, 955
Crevalle					2, 000	20				
Cunners					13, 100	165			1, 000	10
Eels:										
Common	2, 700	167	29, 700	2, 869	40, 800	2, 554	26, 400	$2, 824	77, 800	5, 916
Conger					8, 300	287			7, 600	152
Flounders:										
Yellowtail and dab	500	27			302, 700	5, 837			241, 400	5, 044
Blackback					869, 400	28, 165			312, 000	10, 422
Fluke					77, 500	3, 323			13, 800	1, 228
Grayfish	2, 000	30							2, 000	20
Haddock					1, 200	39				
Hake					11, 500	195			6, 400	53
Herring, sea					112, 800	1, 976			82, 800	771
Hickory shad					11, 000	173			100	1
King whiting or "kingfish"					900	58			2, 000	60
Mackerel					494, 300	15, 626			100, 000	4, 206
Menhaden					12, 000	57			117, 000	799
Pollock					242, 000	3, 429			8, 100	142
Scup or porgy					1, 621, 200	32, 177			57, 200	807
Sea bass					146, 400	10, 014			100	6
Sea robin					55, 700	367			46, 900	327
Shad	4, 200	405			300	30			300	32
Sharks					500	6			2, 900	49
Silversides	400	4								
Skates	100	3			221, 300	1, 175			80, 700	321
Spot									400	8
Squeteagues or "sea trout," gray	100	8	300	21	20, 800	1, 447			43, 000	3, 158
Striped bass					179, 900	16, 405			137, 200	8, 380
Sturgeon					200	20			700	56
Swordfish					308, 800	40, 117	1, 400	185	23, 300	3, 301
Tautog	4, 000	157	6, 200	246	50, 800	1, 972			38, 500	1, 216
Thimble-eyed mackerel					4, 700	94				
Tuna					42, 200	2, 991				
White perch									1, 000	180
Whiting	400	8			923, 000	9, 420			93, 600	558
Crabs:										
Hard	241, 300	7, 240	26, 700	800	41, 900	1, 258			22, 500	675
Soft and peelers									400	150
Rock									1, 600	80
Lobsters	20, 800	5, 200	23, 100	5, 770	493, 700	116, 377			236, 200	50, 736
Clams:										
Hard, public	734, 300	91, 538	985, 400	131, 408	188, 500	21, 670	116, 300	14, 594	189, 900	20, 863
Hard, private	58, 700	7, 343	6, 400	600			1, 800	262		
Soft, public	25, 900	1, 621	43, 500	3, 266	6, 400	510	33, 000	2, 062	61, 600	4, 234
Surf or skimmers					8, 000	670				
Mussels, sea	1, 900	187	3, 100	292						
Oysters, market:										
Public, spring									37, 200	4, 840
Public, fall			19, 200	2, 063	400	60			49, 900	7, 434
Private, spring	870, 200	99, 469	63, 000	9, 000			834, 200	114, 172	74, 200	10, 082
Private, fall	1, 298, 500	175, 916	63, 000	9, 000			874, 200	119, 172	146, 200	19, 680
Periwinkles and cockles	9, 000	500			13, 000	677			38, 400	455
Scallops:										
Bay	9, 600	1, 199	38, 000	7, 912	20, 700	4, 300	2, 900	360	28, 200	5, 588
Sea									2, 700	236
Squid	2, 000	40			783, 900	10, 711			561, 600	5, 812
Starfish					12, 000	840				
Total	3, 309, 200	391, 266	1, 310, 100	173, 372	8, 951, 800	388, 581	1, 890, 200	253, 631	3, 386, 100	191, 114

Fisheries of Rhode Island, 1937—Continued

SEED OYSTER FISHERY: BY GEAR

Item	Dredges		Tongs		Total, exclusive of duplication	
OPERATING UNITS	*Number*		*Number*		*Number*	
Fishermen:						
On vessels	4				4	
On boats and shore:						
Regular			2		2	
Casual			2		2	
Total	4		4		8	
Vessels, motor	1				1	
Net tonnage	19				19	
Boats:						
Motor			2		2	
Other			2		2	
Apparatus:						
Dredges	2				2	
Yards at mouth	3				3	
Tongs			4		4	
CATCH						
Oysters, seed:	*Bushels*	*Value*	*Bushels*	*Value*	*Bushels*	*Value*
Public, spring	12,000	$12,000			12,000	$12,000
Public, fall			915	$549	915	549
Total	12,000	12,000	915	549	12,915	12,549

NOTE.—All of the persons, craft, and gear engaged in the seed-oyster fishery are duplicated among those fishing for market oysters or other species. The seed-oyster fishery in Rhode Island was confined to Bristol County.

CONNECTICUT

Fisheries of Connecticut, 1937

OPERATING UNITS: BY GEAR

Item	Purse seines, mackerel	Haul seines	Gill nets		Lines		Pound nets
			Drift	Stake	Hand	Trot with hooks	
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels					35		
On boats and shore:							
Regular	3	17	14		67	3	12
Casual		97	46	12	12	4	4
Total	3	114	60	12	114	7	16
Vessels, motor:							
5 to 10 tons					6		
11 to 20 tons					6		
21 to 30 tons					1		
Total					13		
Net tonnage					145		
Boats:							
Motor	1	5	25	1	43	4	7
Other		30	5	5	4	3	5
Accessory boats	1						
Apparatus:							
Number	1	37	30	24	117	26	15
Length, yards	120	3,723					
Square yards			58,450	4,740			
Hooks, baits, or snoods					147	2,800	

Fisheries of Connecticut, 1937—Continued

OPERATING UNITS: BY GEAR—Continued

Item	Fyke nets	Dip nets	Scap nets	Otter trawls	Pots		Harpoons	Spears
					Eel	Lobster		
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels				88		10	40	
On boats and shore:								
Regular	11	20		39	23	169	8	6
Casual	15	197	12	4	23	64	2	1
Total	26	217	12	131	46	243	50	7
Vessels, motor:								
5 to 10 tons				18		5	6	
11 to 20 tons				14			5	
21 to 30 tons				3			1	
Total				35		5	12	
Net tonnage				416		38	143	
Boats:								
Motor	6	1		25	10	156	4	
Other	12	212			31	21		6
Accessory boats							14	
Apparatus:								
Number	97	215	12	60	989	15, 772	16	6
Yards at mouth				1, 538				

Item	Dredges, oyster	Tongs		Rakes		Hoes	By hand, other than for oysters	Total, exclusive of duplication
		Oyster	Other	Oyster	Other			
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	218							316
On boats and shore:								
Regular	11	31	18		20	27		295
Casual		7	43	2	43	8	50	575
Total	229	38	61	2	63	35	50	1, 186
Vessels:								
Steam:								
51 to 60 tons	1							1
131 to 140 tons	1							1
291 to 300 tons	1							1
391 to 400 tons	1							1
Total	4							4
Net tonnage	878							878
Motor:								
5 to 10 tons	8							29
11 to 20 tons	9							24
21 to 30 tons	7							10
61 to 70 tons	3							3
111 to 120 tons	1							1
141 to 150 tons	1							1
Total	29							68
Net tonnage	815							1, 267
Total vessels	33							72
Total net tonnage	1, 693							2, 145
Boats:								
Motor	5							230
Other		35	61	1	63	4		461
Accessory boats								15
Apparatus:								
Number	78	38	61	2	63	35		
Yards at mouth	100							

Fisheries of Connecticut, 1937—Continued

CATCH: BY GEAR

Species	Purse seines		Haul seines		Gill nets			
					Drift		Stake	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Carp			32, 300	$2, 545			4, 000	$270
Mackerel	2, 200	$132						
Minnows			2, 100	700				
Mummichog			1, 000	200				
Shad			125, 200	7, 297	240, 200	$15, 965	2, 800	152
Smelt			1, 500	680				
Squeteagues or "sea trout," gray			700	70				
Striped bass			900	135				
Suckers			48, 800	2, 283				
Total	2, 200	132	212, 500	13, 910	240, 200	15, 965	6, 800	422

Species	Lines				Pound nets		Fyke nets	
	Hand		Trot with hooks					
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives					80, 000	$800	4, 800	$51
Bluefish	33, 400	$4, 630			200	24		
Butterfish					26, 700	1, 758		
Carp							3, 200	240
Catfish and bullheads							300	2
Cod	2, 100	105						
Eels:								
Common	2, 700	250	11, 300	$1, 085			3, 400	634
Conger					400	24		
Flounders, blackback	700	33			3, 100	291	200	18
Hickory shad					1, 700	85		
Lamprey							2, 800	300
Mackerel	74, 100	4, 500			700	70		
Menhaden					126, 000	1, 175		
Pollock	2, 500	85						
Scup or porgy	2, 800	90			500	25		
Sea bass	1, 200	72						
Shad					6, 800	355		
Skates					500	8		
Squeteagues or "sea trout," gray					7, 800	829		
Striped bass	600	42			11, 300	1, 687		
Suckers					3, 000	120	57, 100	1, 860
Tautog	15, 900	1, 156			4, 700	369		
Whiting					400	16		
Crabs, hard	2, 400	150						
Squid					5, 900	236		
Total	138, 400	11, 113	11, 300	1, 085	279, 700	7, 872	71, 800	3, 105

Fisheries of Connecticut, 1937—Continued

CATCH: BY GEAR—Continued

Species	Dip nets		Scap nets		Otter trawls		Pots, eel	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Butterfish					12, 400	$771		
Cod					157, 300	6, 022		
Cunners					1, 000	20		
Eels:								
Common							53, 500	$4, 727
Conger					1, 000	50		
Flounders:								
Lemon sole					24, 800	1, 984		
Yellowtail and dab					2, 616, 900	73, 526		
Blackback					3, 170, 400	121, 902		
Fluke					407, 200	33, 376		
Goosefish					20, 000	150		
Haddock					63, 400	2, 515		
Hake					18, 100	566		
Halibut					700	77		
Pollock					100	3		
Scup or porgy					145, 700	4, 274		
Sea bass					58, 900	5, 088		
Sea robin					22, 400	448		
Shad			7, 900	$395				
Skates					55, 500	580		
Smelt	200	$30						
Squirrel hake					3, 600	90		
Sturgeon					100	13		
Tautog					300	18		
Whiting					424, 800	9, 089		
Crabs:								
Hard	4, 200	274						
Soft and peelers	200	67						
Scallops, bay	89, 600	18, 250						
Squid					13, 200	528		
Total	94, 200	18, 621	7, 900	395	7, 217, 800	261, 090	53, 500	4, 727

Species	Pots, lobster		Harpoons		Spears		Dredges	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Eels, common					3, 800	$364		
Swordfish			49, 000	$6, 685				
Lobsters	522, 900	$140, 712						
Clams, hard, private							800	$150
Conchs	19, 200	815						
Oysters, market:								
Private, spring							3, 292, 600	402, 281
Private, fall							3, 514, 200	490, 661
Total	542, 100	141, 527	49, 000	6, 685	3, 800	364	6, 807, 600	893, 092

Species	Tongs		Rakes		Hoes		By hand	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Clams:								
Hard, public	84, 100	$16, 913	103, 600	$22, 855			15, 000	$3, 000
Soft, public					51, 200	$6, 754		
Oysters, market:								
Public, spring	8, 100	966						
Public, fall	48, 600	5, 637						
Private, spring	3, 000	1, 000	400	137				
Private, fall	10, 200	2, 312	400	138				
Total	154, 000	26, 828	104, 400	23, 130	51, 200	6, 754	15, 000	3, 000

Fisheries of Connecticut, 1937—Continued

OPERATING UNITS: BY COUNTIES

Item	Fairfield	Hartford	Middlesex	New Haven	New London
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	82	-----	5	152	77
On boats and shore:					
Regular	44	6	45	55	145
Casual	119	71	91	35	259
Total	245	77	141	242	481
Vessels:					
Steam:					
51 to 60 tons	1	-----	-----	-----	-----
131 to 140 tons	-----	-----	-----	1	-----
291 to 300 tons	-----	-----	-----	1	-----
391 to 400 tons	-----	-----	-----	1	-----
Total	1	-----	-----	3	-----
Net tonnage	51	-----	-----	827	-----
Motor:					
5 to 10 tons	9	-----	1	7	12
11 to 20 tons	4	-----	1	6	13
21 to 30 tons	5	-----	-----	2	3
61 to 70 tons	1	-----	-----	2	-----
111 to 120 tons	-----	-----	-----	1	-----
141 to 150 tons	-----	-----	-----	1	-----
Total	19	-----	2	19	28
Net tonnage	314	-----	22	576	355
Total vessels	20	-----	2	22	28
Total net tonnage	365	-----	22	1, 403	355
Boats:					
Motor	28	5	52	44	101
Other	120	14	47	37	243
Accessory boats	1	-----	2	1	11
Apparatus:					
Purse seines, mackerel	-----	-----	-----	-----	1
Length, yards	-----	-----	-----	-----	120
Haul seines	1	13	12	8	3
Length, yards	83	1, 891	1, 340	142	267
Gill nets:					
Drift	1	1	21	-----	7
Square yards	2, 200	300	36, 050	-----	19, 900
Stake	-----	5	19	-----	-----
Square yards	-----	1, 100	3, 640	-----	-----
Lines:					
Hand	4	-----	20	13	80
Hooks	4	-----	32	15	96
Trot with hooks	2	-----	-----	24	-----
Hooks	400	-----	-----	2, 400	-----
Pound nets	-----	-----	3	2	10
Fyke nets	-----	31	31	-----	35
Dip nets	3	-----	3	1	208
Scap nets	-----	12	-----	-----	-----
Otter trawls	4	-----	4	6	46
Yards at mouth	96	-----	85	148	1, 209
Pots:					
Eel	6	61	176	101	645
Lobster	3, 439	-----	1, 710	3, 806	6, 817
Harpoons	1	-----	2	1	12
Spears	1	-----	-----	4	1
Dredges, oyster	32	-----	-----	44	2
Yards at mouth	39	-----	-----	59	2
Tongs:					
Oyster	4	-----	19	12	3
Other	57	-----	-----	4	-----
Rakes:					
Oyster	2	-----	-----	-----	-----
Other	60	-----	-----	3	-----
Hoes	16	-----	2	9	8

Fisheries of Connecticut, 1937—Continued

CATCH: BY COUNTIES

Species	Fairfield		Hartford		Middlesex		New Haven		New London	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	------	------	4, 800	$51	------	------	------	------	80, 000	$800
Bluefish	800	$76	------	------	7, 400	$1, 220	700	$72	24, 700	3, 286
Butterfish	------	------	------	------	------	------	5, 300	219	33, 800	2, 310
Carp	------	------	17, 500	1, 415	17, 800	1, 330	------	------	4, 200	310
Catfish and bullheads	------	------	------	------	------	------	------	------	300	2
Cod	------	------	------	------	------	------	500	25	158, 900	6, 102
Cunners	------	------	------	------	------	------	------	------	1, 000	20
Eels:										
Common	2, 600	221	3, 200	320	9, 300	805	24, 200	2, 340	35, 400	3, 374
Conger	------	------	------	------	------	------	------	------	1, 400	74
Flounders:										
Lemon sole	------	------	------	------	------	------	------	------	24, 800	1, 984
Yellowtail and dab	------	------	------	------	48, 000	1, 440	7, 400	222	2, 561, 500	71, 864
Blackback	86, 000	3, 100	------	------	15, 300	689	107, 000	4, 518	2, 966, 100	113, 937
Fluke	------	------	------	------	5, 200	443	8, 000	640	394, 000	32, 293
Goosefish	------	------	------	------	------	------	------	------	20, 000	150
Haddock	------	------	------	------	------	------	------	------	63, 400	2, 515
Hake	------	------	------	------	------	------	------	------	18, 100	566
Halibut	------	------	------	------	------	------	------	------	700	77
Hickory shad	------	------	------	------	------	------	------	------	1, 700	85
Lamprey	------	------	2, 800	300	------	------	------	------	------	------
Mackerel	------	------	------	------	2, 000	100	4, 000	200	71, 000	4, 402
Menhaden	------	------	------	------	------	------	26, 000	260	100, 000	915
Minnows	------	------	------	------	------	------	2, 100	700	------	------
Mummichog	------	------	------	------	------	------	1, 000	200	------	------
Pollock	------	------	------	------	1, 500	45	------	------	1, 100	43
Scup or porgy	------	------	------	------	------	------	500	15	148, 500	4, 374
Sea bass	------	------	------	------	------	------	------	------	60, 100	5, 160
Sea robin	------	------	------	------	------	------	------	------	22, 400	448
Shad	8, 000	440	78, 800	4, 349	213, 400	13, 941	400	34	82, 300	5. 400
Skates	1, 300	13	------	------	------	------	------	------	54, 700	575
Smelt	1, 300	650	------	------	------	------	------	------	400	60
Squeteagues or "sea trout," gray	------	------	------	------	------	------	800	45	7, 700	854
Squirrel hake	------	------	------	------	------	------	------	------	3, 600	90
Striped bass	------	------	------	------	------	------	------	------	12, 800	1, 864
Sturgeon	------	------	------	------	------	------	------	------	100	13
Suckers	------	------	37, 900	1, 066	65, 900	2, 954	------	------	5, 100	243
Swordfish	5, 000	700	------	------	13, 000	1, 700	5, 700	700	25, 300	3, 585
Tautog	------	------	------	------	5, 600	500	1, 300	105	14, 000	938
Whiting	------	------	------	------	------	------	5, 300	106	419, 900	8, 999
Crabs:										
Hard	2, 300	121	------	------	------	------	2, 500	160	1, 800	143
Soft and peelers	------	------	------	------	------	------	------	------	200	67
Lobsters	47, 400	14, 994	------	------	60, 700	16, 940	145, 800	43, 313	269, 000	65, 465
Clams:										
Hard, public	195, 700	41, 176	------	------	------	------	7, 000	1, 592	------	------
Hard, private	800	150	------	------	------	------	------	------	------	------
Soft, public	15, 200	2, 380	------	------	1, 100	169	5, 400	1, 180	29, 500	3, 025
Conchs	------	------	------	------	2, 200	115	17, 000	700	------	------
Oysters, market:										
Public, spring	------	------	------	------	6, 700	766	------	------	1, 400	200
Public, fall	------	------	------	------	12, 100	1, 650	35, 000	3, 787	1, 500	200
Private, spring	1, 329, 500	253, 126	------	------	------	------	1, 950, 700	146, 592	15, 800	3, 700
Private, fall	1, 616, 300	318, 185	------	------	400	55	1, 896, 300	171, 964	11, 800	2, 907
Scallops, bay	------	------	------	------	3, 900	800	------	------	85, 700	17, 450
Squid	------	------	------	------	------	------	------	------	19, 100	764
Total	3, 312, 200	635, 332	145, 000	7, 501	491, 500	45, 662	4, 259, 900	379, 689	7, 854, 800	371. 633

Fisheries of Connecticut, 1937—Continued

SEED OYSTER FISHERY: BY GEAR

Item	Dredges		Tongs		Rakes		By hand		Total, exclusive of duplication	
OPERATING UNITS										
Fishermen:	*Number*		*Number*		*Number*		*Number*		*Number*	
On vessels	182		3						185	
On boats and shore:										
Regular	11		69		1		87		160	
Casual	13		21		10		34		69	
Total	206		93		11		121		414	
Vessels:										
Steam	3								3	
Net tonnage	279								279	
Motor	18		1						19	
Net tonnage	434		8						442	
Sail	23								23	
Net tonnage	169								169	
Total vessels	44		1						45	
Total net tonnage	882		8						890	
Boats:										
Motor			1						1	
Other	9		91		11				109	
Apparatus:										
Number	191		93		11					
Yards at mouth	169									
CATCH										
Oysters, seed:	*Bushels*	*Value*	*Bushels*	*Value*	*Bushels*	*Value*	*Bushels*	*Value*	*Bushels*	*Value*
Public, spring	36, 411	$26, 585	9, 034	$5, 550			5, 500	$3, 550	50, 945	$35, 685
Public, fall	17, 122	13, 925	12, 100	8, 200	4, 900	$2, 150	8, 050	5, 032	42, 172	29, 307
Private, spring	284, 800	278, 700							284, 800	278, 700
Private, fall	63, 727	60, 492							63, 727	60, 492
Total	402, 060	379, 702	21, 134	13, 750	4, 900	2, 150	13, 550	8, 582	441, 644	404, 184

SEED OYSTER FISHERY: BY COUNTIES

Item	Fairfield		New Haven	
OPERATING UNITS				
Fishermen:	*Number*		*Number*	
On vessels	99		86	
On boats and shore:				
Regular	152		8	
Casual	67		2	
Total	318		96	
Vessels:				
Steam	2		1	
Net tonnage	174		105	
Motor	4		15	
Net tonnage	127		315	
Sail	19		4	
Net tonnage	143		26	
Total vessels	25		20	
Total net tonnage	444		446	
Boats:				
Motor	1			
Other	100		9	
Apparatus:				
Dredges	143		48	
Yards at mouth	110		59	
Tongs	86		7	
Rakes	8		3	
CATCH				
Oysters, seed:	*Bushels*	*Value*	*Bushels*	*Value*
Public, spring	38, 164	$26, 090	12, 781	$9. 595
Public, fall	28, 701	20, 140	13, 471	9, 167
Private, spring	108, 600	104, 000	176, 200	174, 700
Private, fall	2, 000	1, 600	61, 727	58, 892
Total	177, 465	151, 830	264, 179	252, 354

NOTE.—Of the total number of persons fishing for seed oysters, 217 are duplicated among those fishing for market oysters or other species. Similarly the following craft and gear are duplicated: 7 vessels, 1 motorboat, 53 other boats, and 14 dredges.

VESSEL FISHERIES AT PRINCIPAL NEW ENGLAND PORTS

Due to the importance of the ports of Boston and Gloucester, Mass., and Portland, Maine, as landing points for fishery products, detailed monthly statistics are collected for these landings which are published in the following section:

ECONOMIC ASPECT

The landings of fishery products at the three principal New England ports (Boston and Gloucester, Mass., and Portland, Maine) by vessels of 5 net tons capacity or more during 1937, amounted to 387,960,010 pounds as landed, valued at $9,789,879. This is a decrease of 6 percent in the quantity of the catch as compared with 1936, and also a decrease of 12 percent in the value of the catch. The landings at Boston accounted for 324,599,527 pounds valued at $8,467,985, or 84 percent of the total volume; the landings at Gloucester amounted to 46,238,971 pounds valued at $918,008, or 12 percent of the total; and the landings at Portland amounted to 17,121,512 pounds, valued at $403,886, or 4 percent of the total.

Among the landings of fresh fish, haddock far outranked other species in volume landed. Landings of all sizes of haddock in 1937 amounted to 137,175,269 pounds, or 35 percent of the total fresh fish.

Landings by fishing vessels at the three principal New England ports, 1937

BOSTON: BY MONTHS

Species	January		February		March		April		May		June		July	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Cod, fresh:														
Large	2, 078, 625	$74, 444	3, 753, 695	$100,045	4, 650, 095	$112, 843	3, 245, 820	$70, 514	2, 719, 245	$56, 945	2, 225, 550	$53, 018	1, 870, 720	$41, 580
Market	2, 457, 380	72, 255	2, 394, 435	65, 032	3, 286, 925	77, 182	4, 202, 740	72, 509	5, 395, 710	87, 661	6, 575, 873	91, 200	7, 113, 300	95, 826
Scrod	178, 985	4, 318	139, 975	2, 903	115, 650	2, 243	123, 400	1, 799	390, 450	4, 918	469, 380	5, 023	225, 900	2, 395
Haddock, fresh:														
Large	7, 097. 310	263, 129	11, 569, 745	313, 908	14, 932, 970	360, 836	12, 467, 910	272, 152	7, 441, 430	201, 364	7, 952, 385	210, 422	6, 928, 980	186, 253
Scrod	1, 152, 147	33, 149	1, 794. 240	42, 360	2, 970, 435	60, 977	2, 104, 925	39, 805	1, 842, 691	39, 504	3, 270, 740	62, 807	3, 487, 280	69, 069
Hake, fresh:														
Large	578, 350	19, 607	404, 980	16, 389	421, 660	14, 822	508, 405	12, 823	608, 880	10, 712	652, 750	9, 701	625, 260	8, 531
Small	41, 500	1, 419	22, 925	834	10, 900	314	28, 350	752	83, 500	2. 137	123, 450	2, 474	238, 860	4, 192
Pollock, fresh	1, 383, 950	30, 151	1, 930, 915	34, 662	1, 205, 315	23, 617	1, 185, 385	18, 833	435, 800	7, 692	527, 990	9, 526	496, 620	9, 338
Cusk, fresh	510, 590	14, 921	497, 500	12, 263	501, 645	10, 988	658, 397	9, 650	312, 390	5, 190	166, 110	2, 993	199, 185	2, 560
Halibut, fresh	40, 963	6, 963	183, 967	26, 191	238, 573	33, 979	286, 889	28, 046	225, 234	22, 550	259, 929	25, 559	237, 246	27, 270
Mackerel, fresh	----------	-------	----------	-------	----------	-------	93, 915	8, 298	2, 653, 040	77, 507	1, 150, 880	41, 876	829, 260	40, 117
Flounders, fresh:														
Gray sole	1, 350, 930	34, 797	654, 604	29, 662	1, 084, 745	38, 357	440, 610	20, 935	524, 140	20, 553	359, 730	13, 551	414, 115	16, 042
Lemon sole	277, 070	18, 819	100, 513	9. 307	94, 335	9, 000	182, 390	14, 408	440, 115	11, 629	286, 655	11, 107	190, 114	12, 809
Yellowtail	278, 585	6, 637	67, 482	2, 546	137, 980	5, 062	257, 515	7, 540	483, 013	7, 497	298, 235	4, 751	332, 390	7, 935
Blackback	100, 875	4, 524	29, 695	1, 877	19, 205	1, 282	55, 810	2, 674	98, 735	1, 975	75, 595	1, 664	69, 870	2. 512
Dab	180, 355	2, 843	76, 595	2, 700	112, 395	3, 211	190, 315	4, 800	374, 350	4, 939	375, 225	6, 224	128, 095	2, 424
Other	86, 110	2, 052	63, 990	2, 683	182, 320	5, 527	68, 490	2, 837	148, 265	2, 318	48, 995	876	31, 090	822
Swordfish, fresh	----------	-------	----------	-------	----------	-------	----------	-------	----------	-------	75, 438	22, 803	455, 134	82, 362
Whiting, fresh	27, 125	686	3, 475	148	6, 190	151	57, 410	1, 875	183, 930	2, 164	1, 440, 650	18, 491	1, 287, 900	12, 650
Wolffish, fresh	91, 570	2, 588	138, 670	4, 040	295, 255	7, 839	516, 585	8, 214	337, 015	5, 897	163, 815	3, 485	63, 680	2, 071
Rosefish, fresh	3, 276, 501	36, 655	545, 016	4, 979	253, 735	3, 492	190, 850	3, 653	3, 987, 231	50, 453	3, 486, 735	41, 989	3, 462, 712	46, 772
Other, fresh	5, 351	187	3, 025	41	3, 437	91	155	3	1, 860	89	8, 875	256	16, 025	452
Total	21, 194, 272	630. 144	24, 425, 442	672, 570	30, 523, 765	771, 813	26, 866, 266	602, 120	28, 687, 024	623, 694	29, 994, 985	639, 796	28, 703, 736	673, 982
Landed in 1936, fresh	17, 326, 312	690, 979	18, 552, 406	837, 084	34, 482, 578	1, 074, 111	32, 238, 796	767, 108	31, 214, 833	672, 344	32, 564, 840	770, 355	32, 227, 231	838, 795

NOTE.—The weights of fresh and salted fish given in these statistics represent the fish as landed from the vessels, and the values are those received by the fishermen. Large cod are classified as those weighing over 10 pounds; market cod, 2½ to 10 pounds; and scrod cod, 1 to 2½ pounds. Large haddock are those weighing over 2½ pounds and scrod haddock, 1 to 2½ pounds. Large hake are those weighing over 6 pounds and small hake, under 6 pounds. Only landings by vessels having a capacity of 5 net tons or greater are used in this tabulation. Prior to Jan. 1, 1937, statistics were not collected separately on the individual species of flounders.

Landings by fishing vessels at the three principal New England ports, 1937—Continued

BOSTON: BY MONTHS—Continued

Species	August		September		October		November		December		Total, 1937		Total, 1936	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Cod, fresh:														
Large	1, 146, 955	$42, 763	1, 066, 345	$44, 331	2, 005, 830	$73, 670	2, 602, 425	$72, 626	1, 971, 780	$58, 356	29, 337, 085	$801, 135	29, 516, 328	$911, 858
Market	5, 147, 325	90, 195	3, 802, 445	92, 083	5, 049, 965	135, 003	5, 064, 485	119, 757	3, 105, 110	79, 595	53, 595, 693	1, 078, 298	35, 923, 029	955, 794
Scrod	149, 365	1, 983	181, 400	3, 053	211, 350	4, 130	418, 650	7, 308	340, 205	6, 440	2, 944, 710	46, 513	4, 415, 985	90, 523
Cod, salted:														
Large					6, 000	255					6, 000	255	1, 020	33
Market					400	14					400	14	135	3
Haddock, fresh:														
Large	6, 939, 455	201, 235	6, 758, 540	226, 563	5, 513, 735	229, 531	4, 646, 980	211, 308	4, 568, 880	212, 367	96, 818, 320	2, 889, 068	97, 592, 853	3, 306, 586
Scrod	4, 583, 265	98, 115	5, 603, 095	133, 999	4, 024, 680	107, 964	1, 461, 967	45, 934	807, 650	28, 481	33, 103, 115	762, 164	38, 171, 456	937, 613
Hake, fresh:														
Large	605, 000	10, 970	645, 925	12, 978	954, 770	20, 635	1, 207, 390	24, 118	897, 675	23, 528	8, 111, 045	184, 814	7, 997, 861	229, 838
Small	181, 250	4, 328	176, 200	3, 826	383, 350	8, 260	236, 000	5, 178	88, 100	2, 086	1, 614, 385	35, 800	794, 610	24, 157
Hake, salted, large													75	1
Pollock, fresh	653, 690	12, 699	550, 535	11, 855	1, 275, 240	24, 472	4, 539, 895	82, 646	2, 621, 975	45, 027	16, 857, 310	310, 518	14, 159, 809	335, 768
Cusk, fresh	509, 720	7, 579	595, 445	11, 750	594, 030	13, 931	510, 280	11, 931	500, 490	11, 159	5, 555, 782	114, 915	5, 800, 667	132, 083
Halibut, fresh	209, 587	28, 297	132, 248	17, 926	82, 271	11, 917	25, 814	4, 838	14, 917	3, 148	1, 937, 638	236, 684	2, 059, 883	218, 067
Mackerel, fresh	319, 785	23, 553	347, 678	23, 043	626, 050	46, 569	960, 040	78, 769	504, 570	37, 519	7, 485, 218	377, 251	21, 012, 706	595, 073
Mackerel, salted													865	24
Flounders, fresh:														
Gray sole	365, 605	19, 083	267, 505	15, 794	395, 255	23, 533	406, 875	20, 195	297, 825	15, 775	6, 561, 939	268, 277	13, 880, 564	554, 429
Lemon sole	96, 745	8, 007	193, 233	14, 516	272, 739	16, 344	177, 015	14, 023	125, 475	10, 999	2, 436, 399	150, 968		
Yellowtail	359, 990	10, 228	358, 205	8, 223	244, 370	6, 168	559, 400	9, 618	475, 015	10, 497	3, 852, 180	86, 702		
Blackback	71, 855	3, 086	180, 938	6, 723	53, 590	2, 322	167, 027	5, 757	109, 095	3, 563	1, 032, 290	37, 959		
Dab	103, 440	3, 399	136, 700	3, 703	158, 435	4, 954	169, 805	3, 459	75, 425	1, 745	2, 081, 135	44, 401		
Other	7, 605	367	21, 129	1, 066	16, 935	808	25, 790	1, 249	14, 920	615	715, 639	21, 220		
Swordfish, fresh	395, 133	81, 326	164, 913	39, 078							1, 090, 618	225, 569	1, 195, 520	251, 655
Whiting, fresh	555, 925	6, 278	954, 780	17, 208	1, 352, 119	31, 415	320, 110	8, 620	23, 450	506	6, 213, 064	100, 192	14, 902, 353	253, 385
Wolffish, fresh	64, 581	2, 348	24, 490	897	46, 345	1, 968	37, 820	1, 506	59, 080	1, 898	1, 838, 906	42, 751	1, 920, 081	46, 755
Rosefish, fresh	4, 692, 434	63, 703	4, 262, 094	64, 032	4, 968, 292	102, 549	5, 779, 297	114, 691	6, 270, 355	108, 043	41, 175, 252	641, 011	49, 419, 014	720, 231
Herring, fresh			1, 400	18							1, 400	18	400	6
Other, fresh	65, 752	4, 021	48, 928	2, 089	56, 105	2, 893	18, 205	967	6, 286	399	234, 004	11, 488	398, 275	19, 351
Total, fresh	27, 224, 462	723, 563	26, 474, 171	754, 754	28, 285, 456	869, 036	29, 335, 270	844, 498	22, 878, 278	661, 746	324, 593, 127	8, 467, 716	339, 161, 394	9, 583, 172
Total, salted					6, 400	269					6, 400	269	2, 095	61
Grand total	27, 224, 462	723, 563	26, 474, 171	754, 754	28, 291, 856	869, 305	29, 335, 270	844, 498	22, 878, 278	661, 746	324, 599, 527	8, 467, 985	339, 163, 489	9, 583, 233
Landed in 1936:														
Fresh	29, 942, 393	811, 528	31, 138, 927	872, 835	28, 010, 116	813, 778	26, 718, 676	763, 955	24, 744, 286	670, 300			339, 161, 394	9, 583, 172
Salted	865	24			1, 230	37							2, 095	61
Total	29, 943, 258	811, 552	31, 138, 927	872, 835	28, 011, 346	813, 815	26, 718, 676	763, 955	24, 744, 286	670, 300			339, 163, 489	9, 583, 233

GLOUCESTER: BY MONTHS

Species	January		February		March		April		May		June		July	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Cod, fresh:														
Large	73,185	$3,230	78,750	$2,853	92,890	$3,364	620,675	$14,027	602,795	$15,035	323,235	$8,679	239,590	$5,062
Market	113,960	3,093	80,505	2,241	123,225	3,027	620,325	10,566	434,393	7,222	337,060	4,828	443,015	5,993
Scrod	9,350	171	9,830	171	8,660	164	41,810	722	21,040	240	10,780	102	8,915	93
Cod, salted:														
Large	73,123	2,925			15,235	502	30,720	922	10,025	301	32,100	970	317,745	10,373
Market	101,231	3,037			62,520	1,867	3,135	63	3,000	59	12,535	257	7,440	160
Scrod	28,000	700			628	13								
Haddock, fresh:														
Large	64,600	2,459	48,465	1,890	183,820	4,646	379,367	7,164	186,996	3,861	439,300	10,017	307,230	7,665
Scrod	6,015	120	10,290	174	22,130	500	43,075	753	58,185	1,221	257,335	5,020	82,480	1,497
Hake, fresh:														
Large	56,930	1,568	29,535	874	12,340	252	7,260	120	126,995	1,194	78,850	858	224,570	2,340
Small	25,180	567	5,230	85	3,095	49			1,470	19	8,910	82	5,470	49
Hake, salted, large					1,973	30							2,560	51
Pollock:														
Fresh	418,665	8,099	15,275	259	20,150	433	80,995	1,191	32,060	483	53,589	829	598,675	8,286
Salted	1,330	27									130	2	470	7
Cusk, fresh	8,465	230	6,620	163	2,325	45	58,025	730	16,600	197	24,958	300	99,435	1,338
Halibut, fresh	696	176	90	15	8	1	1,837	139	1,864	152	25,098	1,278	1,089	71
Mackerel, fresh									58,930	1,264	47,754	1,869	269,425	9,215
Flounders, fresh:														
Gray sole	100,605	3,932	104,150	5,524	93,445	3,336	15,570	693	29,575	769	50,943	1,364	81,145	2,249
Lemon sole	710	28			100	2					10,540	251	655	14
Yellowtail	6,250	171	6,850	208	455	10	880	22	11,080	276	765	14	255	5
Blackback	9,920	351	5,675	303	3,615	161	580	21	520	14	170	5		
Dab	20,985	351	21,640	640	17,040	357	20,080	361	15,735	196	14,149	138	20,130	215
Other							215	2	355	6				
Swordfish, fresh											1,355	451	3,870	657
Whiting, fresh	6,845	199	795	27	420	17	605	12	8,419	78	9,335	86	5,346	59
Wolffish, fresh	2,170	55	2,585	69	7,815	178	48,805	697	15,835	230	9,660	147	6,045	99
Rosefish, fresh	360,375	4,094	286,795	2,884	126,100	1,349	8,280	133	1,860,375	22,133	2,914,540	31,750	2,227,185	28,748
Other, fresh	5,230	84	3,710	60	1,990	34	540	10	1,709	72	4,626	112	48,496	2,098
Total, fresh	1,290,136	28,978	716,790	18,440	719,623	17,925	1,948,924	37,363	3,484,931	54,662	4,622,952	68,180	4,673,021	75,753
Total, salted	203,684	6,689			80,356	2,412	33,855	985	13,025	360	44,765	1,229	328,215	10,591
Grand total	1,493,820	35,667	716,790	18,440	799,979	20,337	1,982,779	38,348	3,497,956	55,022	4,667,717	69,409	5,001,236	86,344
Landed in 1936:														
Fresh	969,795	32,185	279,499	11,994	2,200,560	60,509	3,154,800	69,798	4,848,209	86,340	4,827,771	85,760	4,406,325	75,520
Frozen					276,690	5,534								
Salted	247,104	7,624			182,505	5,666	46,195	1,226	185,535	5,320	116,355	2,624	552,526	18,192
Total	1,216,899	39,809	279,499	11,994	2,659,755	71,709	3,200,995	71,024	5,033,744	91,660	4,944,126	88,384	4,958,851	93,712

Landings by fishing vessels at the three principal New England ports, 1937—Continued

GLOUCESTER: BY MONTHS—Continued

Species	August		September		October		November		December		Total, 1937		Total, 1936	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Cod, fresh:														
Large	158, 615	$5, 464	221, 301	$9, 856	218, 040	$9, 011	660, 942	$16, 949	325, 545	$9, 449	3, 615, 563	$102, 979	4, 870, 209	$137, 250
Market	268, 545	4, 302	264, 135	5, 519	460, 821	11, 141	829, 640	18, 204	434, 662	9, 457	4, 410, 286	85, 593	1, 683, 419	38, 682
Scrod	10, 495	132	390	5	1, 775	25	21, 230	382	40, 670	724	184, 945	2, 931	245, 052	5, 306
Cod, salted:														
Large	352, 040	11, 394	84, 320	2, 517	5, 950	164			1, 835	87	923, 093	30, 155	907, 151	30, 498
Market	6, 005	131	4, 990	125	126, 285	4, 035			160	5	327, 301	9, 739	443, 757	12, 710
Scrod											28, 628	713	84, 598	1. 693
Haddock, fresh:														
Large	374, 353	9, 860	197, 783	6, 053	331, 925	13, 057	271, 360	9, 290	371, 902	6, 632	3, 157, 101	82, 594	3, 128, 911	89, 363
Scrod	125, 570	2, 613	98, 085	2, 290	251, 520	6, 217	65, 780	1, 362	29, 150	792	1, 049, 615	22, 559	845, 602	19, 642
Haddock, salted, large													2, 510	50
Hake, fresh:														
Large	164 285	2, 192	290, 530	4, 388	394, 133	6, 486	224, 688	4, 049	122, 912	2, 594	1, 733, 028	26, 915	701, 062	15, 425
Small	1, 655	16	7, 475	81	21, 405	225	8, 670	102	22, 462	369	111, 022	1, 644	49, 415	916
Hake, salted, large			1, 200	18	680	14					6, 413	113	2, 720	48
Pollock, fresh	859, 705	13, 567	650, 824	11, 112	1, 055, 548	16, 547	3, 692, 629	55, 570	2, 136, 834	28, 719	9, 614, 949	145, 095	17, 145, 965	280, 339
Pollock, salted	40	1	160	2							2, 130	39	860	10
Cusk, fresh	39, 470	479	11, 135	198	2, 300	36	5, 450	99	25, 695	458	300, 478	4, 273	151, 341	2, 824
Cusk, salted			400	8							400	8	5, 000	88
Halibut, fresh	463	61	235	26	193	34	2, 039	236	6, 821	1, 165	40, 433	3, 354	26, 751	2, 116
Halibut, salted													15, 895	892
Mackerel, fresh	94, 670	6, 440	78, 695	4, 758	59, 468	5, 008	420, 878	27, 341	232, 343	15, 866	1, 262, 163	71, 761	7, 103, 273	174, 353
Mackerel, salted	67, 600	4, 500	119, 800	7, 188	63, 770	3, 825					251, 170	15, 513	289, 622	9, 381
Flounders, fresh:														
Gray sole	63, 565	2, 163	62, 250	2, 608	55, 750	2, 844	125, 480	4, 532	65, 275	2, 462	847, 753	32, 476	837, 065	29, 657
Lemon sole			11, 475	772	4, 560	178	210	9	940	38	29, 190	1, 292		
Yellowtail	8, 560	160	81, 970	1, 551	5, 965	118	82, 495	1, 369	31, 610	467	237, 135	4, 371		
Blackback	165	6	1, 575	42	7, 255	223	1, 840	47	1, 425	41	32, 740	1, 214		
Dab	17, 210	243	21, 295	266	32, 645	619	65, 500	931	34, 359	502	300, 768	4, 819		
Other			6, 165	495	1, 525	148	50	5			8, 310	656		
Swordfish, fresh	5, 501	849	459	103							11, 185	2, 060	1, 486	439
Whiting, fresh	17, 221	224	9, 295	136	228, 321	5, 389	37, 006	893	2, 045	54	325, 653	7, 174	2, 619, 800	41, 893
Wolffish, fresh	3, 680	62	495	10	1, 520	27	1, 805	42	2, 000	47	102, 415	1, 663	68, 405	1, 385
Rosefish, fresh	2, 307, 086	29, 676	1, 254, 777	18, 698	1, 134, 813	23, 303	2, 530, 794	47, 962	2, 011, 620	35, 002	17, 022, 740	245, 732	17, 093, 898	242, 636
Herring, fresh			3, 475	33	1, 400	12					4, 875	45	1, 750	16
Herring, frozen													276, 690	5, 534
Herring, salted													321, 804	9, 678
Other, fresh	109, 489	4, 380	48, 778	899	46, 717	1, 728	23, 602	926	2, 602	125	297, 489	10, 528	291, 102	5, 420
Total, fresh	4, 630, 303	82, 889	3, 322, 597	69, 899	4, 317, 599	102, 376	9, 072, 088	190, 300	5, 900, 872	114, 963	44. 699, 836	861, 728	56, 864. 506	1, 087, 662
Total, frozen													276, 690	5, 534

Total, salted	425, 685	16, 026	210, 870	9, 858	196, 685	8, 038			1, 995	92	1, 539, 135	56, 280	2, 073, 917	65, 048
Grand total	5, 055, 988	98, 915	3, 533, 467	79, 757	4, 514, 284	110, 414	9, 072, 088	190, 300	5, 902, 867	115, 055	46, 238, 971	918, 008	59, 215, 113	1, 158, 244
Landed in 1936:														
Fresh	6, 285, 312	110, 355	5, 818, 793	120, 525	7, 887, 260	156, 589	9, 757, 427	161, 237	6, 428, 755	116, 850			56, 864, 506	1, 087, 662
Frozen													276, 690	5, 534
Salted	252, 418	8, 563	246, 407	8, 240	244, 872	7, 593							2, 073, 917	65, 048
Total	6, 537, 730	118, 918	6, 065, 200	128, 765	8, 132, 132	164, 182	9, 757 427	161, 237	6, 428, 755	116, 850			59, 215, 113	1, 158, 244

PORTLAND: BY MONTHS

Species	January		February		March		April		May		June		July	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Cod, fresh:														
Large	79, 195	$3, 189	67, 960	$2, 204	77, 450	$2, 475	573, 762	$12, 146	572, 541	$11, 816	287, 290	$8, 470	343, 877	$10, 208
Market	74, 975	2, 237	83, 818	2, 120	106, 069	2, 367	980, 218	17, 856	1, 355, 294	24, 710	65, 186	1, 062	10, 908	165
Scrod	2, 085	22	3, 865	71	1, 723	27	2, 195	23	1, 225	11	1, 420	11	890	10
Haddock, fresh:														
Large	196, 221	9, 825	163, 893	6, 299	159, 279	5, 938	1, 159, 294	23, 034	604, 953	12, 729	80, 914	3, 030	48, 720	2, 304
Scrod	4, 645	106	8, 120	167	2, 370	35	45, 265	825	15, 205	263	4, 830	52	1, 540	28
Hake, fresh:														
Large	178, 708	6, 265	133, 383	4, 970	108, 273	3, 549	113, 035	2, 760	303, 586	4, 162	291, 270	3, 962	205, 153	2, 879
Small	2, 705	65	80	1	300	7	3, 975	66	10, 340	93	28, 760	290	27, 820	259
Pollock, fresh	108, 590	1, 821	37, 036	550	67, 044	998	324, 225	3, 452	210, 799	2, 134	141, 036	1, 524	80, 090	826
Cusk, fresh	295, 505	8, 382	379, 770	9, 702	374, 583	8, 192	282, 446	4, 862	107, 686	2, 328	57, 926	1, 133	80, 270	1, 546
Halibut, fresh	1, 570	294	4, 142	759	4, 303	699	9, 328	786	3, 879	446	1, 062	168	168	26
Mackerel, fresh											73, 435	2, 651	108, 014	3, 786
Flounders, fresh:														
Gray sole	4, 875	204	25, 585	1, 028	21, 240	686	51, 045	1, 909	56, 210	1, 742	107, 613	2, 785	105, 953	3, 003
Lemon sole	300	15					20	1						
Yellowtail	11, 510	235					4, 000	40	17, 550	99	4, 210	51	2, 845	57
Blackback	1, 715	67			12, 325	378	7, 280	211	5, 387	115	4, 849	43	2, 952	51
Dab	1, 015	18	2, 460	53	11, 100	189	56, 525	740	82, 304	639	13, 232	110	7, 295	127
Other							55				10			
Wolffish, fresh	300	3	721	6	2, 625	27	38, 073	395	9, 997	94	5, 972	42	2, 892	26
Rosefish, fresh	4, 368	50	27, 955	159	39, 255	192	4, 390	18	13, 990	80	22, 535	112	1, 511	13
Herring, fresh											237	2		
Other, fresh	1, 457	29	473	38	7, 118	493	1, 153	53	3, 315	88	4, 915	117	6, 526	134
Total	969, 739	32, 827	939, 261	28, 127	995, 057	26, 252	3, 656, 284	69, 177	3, 374, 261	61, 549	1, 196, 702	25, 615	1, 037, 424	25, 448
Landed in 1936, fresh	436, 421	16, 574	630, 700	25, 146	759, 190	21, 775	2, 145, 191	42, 455	3, 122, 037	56, 888	2, 429, 226	50, 965	1, 150, 712	28, 893

Landings by fishing vessels at the three principal New England ports, 1937—Continued

PORTLAND: BY MONTHS—Continued

Species	August		September		October		November		December		Total, 1937		Total, 1936	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Cod, fresh:														
Large	304, 145	$14, 178	238, 558	$10, 894	134, 627	$6, 032	98, 275	$3, 754	43, 435	$1, 596	2, 821, 115	$86, 962	2, 149, 330	$60, 884
Market	32, 225	614	55, 755	1, 090	110, 910	2, 440	88, 135	1, 907	35, 637	888	2, 999, 130	57, 456	1, 130, 639	23, 359
Scrod	1, 931	32	200	2	900	10	2, 430	24	2, 335	42	21, 199	285	4, 585	56
Cod, salted, large													5, 180	168
Haddock, fresh:														
Large	84, 284	3, 803	71, 331	3, 486	113, 414	5, 837	171, 530	8, 595	79, 915	4, 235	2, 933, 748	89, 115	3, 636, 769	98, 100
Scrod	2, 635	48	1, 225	21	5, 160	106	13, 130	223	9, 245	231	113, 370	2, 105	503, 159	9, 369
Hake, fresh:														
Large	195, 991	3, 263	262, 573	4, 977	324, 232	7, 078	214, 695	4, 604	68, 012	1, 663	2, 398, 911	50, 132	2, 314, 592	53, 181
Small	20, 910	203	20, 945	349	43, 625	746	20, 730	488	42, 845	1, 225	223, 035	3, 792	74, 469	1, 023
Hake, salted, large													2, 030	20
Pollock, fresh	110, 965	1, 169	267, 569	2, 800	308, 540	3, 661	304, 535	4, 290	237, 672	3, 319	2, 198, 101	26, 544	3, 100, 022	49, 262
Cusk:														
Fresh	90, 040	1, 662	48, 008	998	238, 561	5, 215	154, 572	3, 665	60, 650	1, 495	2, 170, 017	49, 180	1, 308, 530	33, 414
Salted													4, 500	72
Halibut, fresh	859	115	363	57	2, 078	280	2, 601	530	1, 939	361	32, 292	4, 521	95, 103	8, 558
Mackerel, fresh	27, 315	1, 642	7, 318	377	78	10					216, 160	8, 466	263, 942	10, 816
Flounder, fresh:														
Gray sole	30, 771	1, 321	18, 274	965	2, 335	99	6, 020	295	6, 172	342	436, 093	14, 379	804, 816	18, 278
Lemon sole									15	2	335	18		
Yellowtail	860	25	475	14			9, 965	152	2, 955	72	54, 370	745		
Blackback	3, 731	97	995	30	180	2	1, 310	23	670	23	41, 394	1, 040		
Dab	5, 190	95	4, 080	82	1, 115	28	1, 405	35	4, 645	89	190, 366	2, 205		
Other									2, 765	138	2, 830	138		
Swordfish, fresh	21, 760	3, 665	857	168							22, 617	3, 833	45, 704	8, 450
Whiting, fresh	10								75	2	85	2	144, 780	2, 157
Wolffish, fresh	2, 111	27	65		583	5	625	9	115	1	64, 079	635	57, 130	610
Rosefish, fresh	1, 240	10	1, 313	13	325	5	8, 585	121	3, 760	49	129, 227	822	78, 647	775
Herring, fresh											237	2	73, 340	574
Other, fresh	3, 844	94	15, 454	210	6, 157	170	1, 860	71	529	12	52, 801	1, 509	116, 318	1, 613
Total, fresh	940, 817	32, 063	1, 015, 358	26, 533	1, 292, 820	31, 724	1, 100, 403	28, 786	603, 386	15, 785	17, 121, 512	403, 886	15, 901, 875	380, 479
Total, salted													11, 710	260
Grand total	940, 817	32, 063	1, 015, 358	26, 533	1, 292, 820	31, 724	1, 100, 403	28, 786	603, 386	15, 785	17, 121, 512	403, 886	15, 913, 585	380, 739
Landed in 1936:														
Fresh	1, 275, 154	33, 478	1, 456, 933	35, 165	1, 242, 169	30, 514	604, 718	18, 543	649, 424	20, 083			15, 901, 875	380, 479
Salted	11, 710	260											11, 710	260
Total	1, 286, 864	33, 738	1, 456, 933	35, 165	1, 242, 169	30, 514	604, 718	18, 543	649, 424	20, 083			15, 913, 585	380, 739

SUMMARY: By ports

Species	Boston		Gloucester		Portland		Total, 1937		Total, 1936	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Cod, fresh:										
Large	29, 337, 085	$801, 135	3, 615, 563	$102, 979	2, 821, 115	$86, 962	35, 773, 763	$991, 076	36, 535, 867	$1, 109, 992
Market	53, 595, 693	1, 078, 298	4, 410, 286	85, 593	2, 999, 130	57, 456	61, 005, 109	1, 221, 347	38, 737, 087	1, 017, 835
Scrod	2, 944, 710	46, 513	184, 945	2, 931	21, 199	285	3, 150, 854	49, 729	4, 665, 622	95, 885
Cod, salted:										
Large	6, 000	255	923, 093	30, 155			929, 093	30, 410	913, 351	30, 699
Market	400	14	327, 301	9, 739			327, 701	9, 753	443, 892	12, 713
Scrod			28, 628	713			28, 628	713	84, 598	1, 693
Haddock, fresh:										
Large	96, 818, 320	2, 889, 068	3, 157, 101	82, 594	2, 933, 748	89, 115	102, 909, 169	3, 060, 777	104, 358, 533	3, 494, 049
Scrod	33, 103, 115	762, 164	1, 049, 615	22, 559	113, 370	2, 105	34, 266, 100	786, 828	39, 520, 217	966, 624
Haddock, salted, large									2, 510	50
Hake, fresh:										
Large	8, 111, 045	184, 814	1, 733, 028	26, 915	2, 398, 911	50, 132	12, 242, 984	261, 861	11, 013, 515	298, 444
Small	1, 614, 385	35, 800	111, 022	1, 644	223, 035	3, 792	1, 948, 442	41, 236	918, 494	26, 096
Hake, salted, large			6, 413	113			6, 413	113	4, 825	69
Pollock, fresh	16, 857, 310	310, 518	9, 614, 949	145, 095	2, 198, 101	26, 544	28, 670, 360	482, 157	34, 405, 796	665, 369
Pollock, salted			2, 130	39			2, 130	39	860	10
Cusk, fresh	5, 555, 782	114, 915	300, 478	4, 273	2, 170, 017	49, 180	8, 026, 277	168, 368	7, 260, 538	168, 321
Cusk, salted			400	8			400	8	9, 500	160
Halibut, fresh	1, 937, 638	236, 684	40, 433	3, 354	32, 292	4, 521	2, 010, 363	244, 559	2, 181, 737	228, 741
Halibut, salted									15, 895	892
Mackerel, fresh	7, 485, 218	377, 251	1, 262, 163	71, 761	216, 160	8, 466	8, 963, 541	457, 478	28, 379, 921	780, 242
Mackerel, salted			251, 170	15, 513			251, 170	15, 513	290, 487	9, 405
Flounders, fresh:										
Gray sole	6, 561, 939	268, 277	847, 753	32, 476	436, 093	14, 379	7, 845, 785	315, 132	15, 522, 445	602, 364
Lemon sole	2, 436, 399	150, 968	29, 190	1, 292	335	18	2, 465, 924	152, 278		
Yellowtail	3, 852, 180	86, 702	237, 135	4, 371	54, 370	745	4, 143, 685	91, 818		
Blackback	1, 032, 290	37, 959	32, 740	1, 214	41, 394	1, 040	1, 106, 424	40, 213		
Dab	2, 081, 135	44, 401	300, 768	4, 819	190, 366	2, 205	2, 572, 269	51, 425		
Other	715, 639	21, 220	8, 310	656	2, 830	138	726, 779	22, 014		
Swordfish, fresh	1, 090, 618	225, 569	11, 185	2, 060	22, 617	3, 833	1, 124, 420	231, 462	1, 242, 710	260, 544
Whiting, fresh	6, 213, 064	100, 192	325, 653	7, 174	85	2	6, 538, 802	107, 368	17, 666, 933	297, 435
Wolffish, fresh	1, 838, 906	42, 751	102, 415	1, 663	64, 079	635	2, 005, 400	45, 049	2, 045, 616	48, 750
Rosefish, fresh	41, 175, 252	641, 011	17, 022, 740	245, 732	129, 227	822	58, 327, 219	887, 565	66, 591, 559	963, 642
Herring, fresh	1, 400	18	4, 875	45	237	2	6, 512	65	75, 490	596
Herring, frozen									276, 690	5, 534

Landings by fishing vessels at the three principal New England ports, 1937—Continued

SUMMARY: BY PORTS—Continued

Species	Boston		Gloucester		Portland		Total, 1937		1936	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Herring, salted									321, 804	$9, 678
Other, fresh	234, 004	$11, 488	297, 489	$10, 528	52, 801	$1, 509	[1] 584, 294	[1] $23, 525	[2] 805, 695	[2] 26, 384
Total, fresh	324, 593, 127	8, 467, 716	44, 699, 836	861, 728	17, 121, 512	403, 886	386, 414, 475	9, 733, 330	411, 927, 775	11, 051, 313
Total, frozen									276, 690	5, 534
Total, salted	6, 400	269	1, 539, 135	56, 280			1, 545, 535	56, 549	2, 087, 722	65, 369
Grand total	324, 599, 527	8, 467, 985	46, 238, 971	918, 008	17, 121, 512	403, 886	387, 960, 010	9, 789, 879	414, 292, 187	11, 122, 216
Landed in 1936:										
Fresh	339, 161, 394	9, 583, 172	56, 864, 506	1, 087, 662	15, 901, 875	380, 479			411, 927, 775	11, 051, 313
Frozen			276, 690	5, 534					276, 690	5, 534
Salted	2, 095	61	2, 073, 917	65, 048	11, 710	260			2, 087, 722	65, 369
Total	339, 163, 489	9, 583, 233	59, 215, 113	1, 158, 244	15, 913, 585	380, 739			414, 292, 187	11, 122, 216

[1] The items under "Other, fresh" include albacore, 35 pounds, value $2; alewives, 109,415 pounds, value $1,120; butterfish, 122,831 pounds, value $6,904; cunner (perch) 320 pounds, value $11; eels, 1,790 pounds, value $45; goosefish, 16,525 pounds, value, $178; herring smelt, 10,645 pounds, value $191; salmon, 83 pounds, value $19; scup or porgy, 15,030 pounds, value $314; sea bass, 640 pounds, value $25; shad, 30,409 pounds, value $1,769; sharks, 65,356 pounds, value $1,865; skates, 34,822 pounds, value $460; striped bass, 28,185 pounds, value $2,536; sturgeon, 3,633 pounds, value $350; tautog, 700 pounds, value $27; tuna, 119,619 pounds, value $5,872; mixed fish, 8,106 pounds, value $127; lobsters, 251 pounds, value $60; scallops, 8,752 pounds, value $1,147; shrimp, 7,072 pounds, value $502; and squid, 75 pounds, value $1. The total for "Other, fresh" for 1937 does not represent the aggregate of "Other fresh" as recorded in the monthly bulletins throughout the year, since no livers, spawn, or tongues are included in the above table. These commodities were included in the monthly bulletins prior to May.

[2] Does not include the landings of livers, sounds, spawn, and tongues previously reported in this item.

NOTE.—In addition to the above the following also were landed during 1937: Livers, 2,920,873 pounds, value $65,669; spawn, 167,688 pounds, value $6,466; and tongues, 30 pounds, value $1.

BIOLOGICAL ASPECT

In 1937 the fishing fleet landing fares at Boston and Gloucester, Mass., and Portland, Maine, and operating on the fishing banks of the North Atlantic, numbered 373 steam, motor, and sail vessels of 5 net tons capacity or greater, as measured by the United States Customs Service. The catch of edible fish landed at the three ports amounted to 389,228,243 pounds when the salted fish had been converted to the basis of fresh gutted or round fish as usually landed. This, however, does not represent the entire catch of edible fish of these vessels, for landings were also made at ports in New England other than these three, at New York City, and at more southern ports in connection with the southern winter trawl and mackerel fisheries.

Otter trawls on all sizes of vessels accounted for 316,631,906 pounds, or 81 percent of the total landings. Line trawls were next in importance, accounting for 44,006,603 pounds, or 11 percent of the total landings.

The catch taken off New England and landed at the three ports amounted to 237,283,835 pounds, or 61 percent of the total; that off Nova Scotia 146,965,720 pounds, or 38 percent; off the east coast of Newfoundland 3,818,780 pounds, or 1 percent; and that off the Middle Atlantic States 1,159,908 pounds, or less than one-half of 1 percent.

Landings by fishing vessels at the three principal New England ports, 1937

BY GEAR AND FISHING AREAS

Gear and fishing areas	Vessels fishing	Trips	Days absent	Cod			Haddock		Hake		Pollock	Cusk	Halibut
				Large	Market	Scrod	Large	Scrod	Large	Small			
Line trawls:	*Number*	*Number*	*Number*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*
Treaty Coast	2	2	207	138,934	314,767	56,683	----	----	3,749	----	2,527	----	----
Magdalen Islands	1	3	136	1,126,700	242,500	----	----	----	----	----	----	----	----
Magdalen Island (occasional)	----	----	----	95,000	----	----	----	----	----	----	----	----	----
Gulf of St. Lawrence, unclassified	5	7	140	39,779	25,751	----	6,700	----	149,075	----	----	11,255	104,181
Grand Bank	2	6	158	98,496	11,650	----	----	----	7,564	----	----	----	298,320
Green Bank	1	2	48	5,113	233	----	----	----	3,470	----	----	2,496	97,696
St. Pierre Bank	2	4	86	2,726	1,900	----	----	----	----	----	----	----	208,527
Northeast Cape Breton	2	4	55	7,521	3,776	----	20,255	165	11,200	----	855	35,300	55,609
Banquereau	4	10	229	126,698	26,954	----	----	----	84,002	----	3,800	14,449	242,948
Middle Ground	1	1	10	28,900	15,200	----	59,700	----	----	----	500	----	2,541
Northeast Sable Island Bank	3	3	21	21,783	6,471	----	3,720	420	24,740	----	370	22,140	30,052
Southeast Sable Island Bank	1	2	5	10,730	16,960	----	----	800	3,980	----	510	3,990	571
Horseshoe Ground	4	4	31	21,493	13,936	----	34,010	2,510	14,486	----	3,850	15,080	16,719
Southwest Sable Island Bank	5	5	32	47,720	48,130	1,700	101,060	5,910	6,930	----	10,165	1,200	2,539
Eastern Nova Scotia	2	2	20	28,060	24,530	3,100	31,055	180	39,640	----	725	16,750	693
Emerald Bank	7	12	109	81,810	87,260	----	385,420	28,390	97,630	----	15,465	143,385	23,484
Central Nova Scotia	2	2	17	12,650	5,000	----	380	----	36,380	----	802	23,680	30
La Have Bank (including Sambro Bank)	20	42	429	437,742	490,910	18,200	448,950	32,875	367,768	----	23,883	420,815	137,331
Southern Nova Scotia	17	46	380	307,825	425,385	28,240	841,095	86,845	215,028	525	100,846	347,417	9,958
Browns Bank	25	163	1,511	1,604,112	1,385,511	20,145	4,133,548	222,235	615,748	830	195,607	991,242	234,141
Western Nova Scotia	23	49	449	284,384	368,815	11,630	783,900	90,750	535,180	----	86,870	297,650	17,767
Southern Bay of Fundy	1	3	24	11,250	8,695	----	70,455	2,020	12,990	----	895	14,405	240
Nova Scotia, unclassified	8	12	159	134,560	90,930	----	118,570	5,240	147,440	----	9,955	134,080	7,546
Eastern Maine	2	4	48	8,450	6,580	480	23,295	1,260	7,050	6,900	4,540	6,220	1,480
Central Maine	18	160	1,214	150,033	120,540	4,425	116,184	3,180	1,248,890	48,955	78,083	838,912	2,874
Western Maine	14	162	209	34,545	17,560	1,915	54,430	1,710	102,936	19,290	10,160	61,674	1,117
Eastern Massachusetts	34	694	1,418	376,345	465,030	57,705	339,255	2,135	40,430	305,855	122,160	78,045	193
Eastern Massachusetts (occasional)	----	----	----	550	500	45	----	----	175	----	1,800	180	----
Inner Grounds	54	437	2,050	560,402	571,620	21,200	1,906,447	72,985	2,016,094	242,380	276,719	3,465,018	23,968
Western Side South Channel	16	66	411	414,395	443,620	2,060	1,678,250	72,220	248,465	----	127,995	146,590	11,651
Eastern Side South Channel	17	53	325	220,420	156,955	375	759,580	25,155	532,160	350	40,590	408,435	5,708
Northern Edge of Georges	8	17	96	254,647	170,175	----	235,235	4,240	76,855	----	25,175	60,355	9,314
Northeast Peak of Georges	4	5	38	119,380	50,160	----	62,900	2,600	29,880	----	5,894	18,450	1,033
Lightship Grounds	1	1	7	19,000	18,500	----	71,300	1,900	2,800	----	1,000	----	460
Nantucket Shoals	1	1	7	10,430	5,360	----	28,700	2,900	----	----	1,150	----	1,632
Off No Mans Land	3	3	21	8,400	9,750	200	27,900	4,800	5,500	----	3,200	22,575	708
Southern New England, unclassified	2	4	21	59,170	16,780	----	54,900	500	25,116	----	5,050	24,780	175
Total	[1] 90	1,991	10,121	6,910,153	5,668,394	228,103	12,397,194	673,925	6,713,351	625,085	1,161,141	7,626,568	1,551,206

Hand lines:													
Central Maine (occasional)				215	365				30		700	125	
Western Maine	2	3	4	425	810				65		35		
Eastern Massachusetts	7	7	20	3,705	4,035	25	25		50		815	30	9
Eastern Massachusetts (occasional)					690								
Western Side South Channel	1	1	7	7,500	4,800						1,300		
Total	10	11	31	11,845	10,700	25	25		145		2,850	155	9
Harpoons:													
Northeast Cape Breton	15	15	288										
Banquereau	1	1	28										
Northeast Sable Island Bank	1	1	12										
Horseshoe Ground	1	1	4										
La Have Bank (including Sambro Bank)	1	1	5										
Browns Bank	30	50	703										
Nova Scotia, unclassified	2	2	31										
Western Maine	1	5	5										
Eastern Massachusetts	1	1	1										
Western Side South Channel	1	1	12										
Eastern Side South Channel	1	1	8										
Northern Edge of Georges	11	14	155										
Northeast Peak of Georges	20	23	191										
Southeast Georges	9	11	145										
Southwest Georges	15	18	278										
Lightship Grounds	9	12	145										
Off No Mans Land	3	3	31										
Southern New England, unclassified	9	10	124										
South	6	6	73										
Total	[1] 36	176	2,239										
Otter trawls, large:													
Newfoundland Banks, unclassified	3	4	32	62,600	103,700	9,400	220,300	18,080	760		2,560	20	87
Misaine Bank	1	1	12	6,500	22,500	2,700	81,000	500	100		100		251
Banquereau	48	140	1,441	2,872,209	12,088,010	1,017,816	3,881,991	774,350	22,075		196,230	777	46,092
Middle Ground	37	76	625	948,675	2,221,141	176,815	2,940,770	166,605	68,535		152,215	8,335	11,312
Northeast Sable Island Bank	37	80	616	1,156,115	2,650,520	82,535	2,994,375	296,095	19,820		226,957	8,483	15,282
Southeast Sable Island Bank	14	15	117	518,625	833,915	11,600	351,165	15,340	11,340		57,668	2,815	11,098
Horseshoe Ground	59	183	1,511	3,321,778	3,207,747	93,881	8,638,823	307,405	242,445		1,428,851	33,994	49,064
Southwest Sable Island Bank	40	87	592	1,462,557	1,624,430	59,235	3,490,393	304,710	42,437	190	372,890	4,433	28,827
Eastern Nova Scotia	6	6	18	9,690	26,450	1,300	114,310	11,920	5,620		5,190	190	516
Emerald Bank	48	118	846	1,258,836	1,212,455	72,443	5,564,202	406,904	169,230		682,815	20,785	29,297
Central Nova Scotia	2	2	7	1,520	11,800		33,960	22,520	3,680		820	520	138
La Have Bank (including Sambro Bank)	6	8	31	34,305	39,745	2,300	78,080	27,638	4,595		23,050	100	495
Southern Nova Scotia	22	85	543	345,271	223,215	2,620	204,080	74,430	59,270		166,330	295	798
Browns Bank	52	253	1,567	1,306,208	2,134,821	105,355	6,970,155	1,844,528	161,531	760	1,512,993	31,355	33,236
Western Nova Scotia	5	9	87	365,662	507,570	11,160	155,090	20,315	10,555		236,115	427	670

See footnotes at end of table.

Landings by fishing vessels at the three principal New England ports, 1937—Continued

BY GEAR AND FISHING AREAS—Continued

Gear and fishing areas	Vessels fishing	Trips	Days absent	Cod			Haddock		Hake		Pollock	Cusk	Halibut
				Large	Market	Scrod	Large	Scrod	Large	Small			
	Number	*Number*	*Number*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*
Otter trawls, large—Continued.													
Nova Scotia, unclassified	22	32	335	416, 505	684, 730	75, 700	1, 029, 010	150, 005	39, 660	----	191, 265	4, 370	10, 031
Eastern Massachusetts	1	1	1	----	----	----	----	----	----	----	11, 830	----	----
Inner Grounds	3	4	18	2, 300	1, 980	----	5, 280	----	320	----	3, 060	220	48
Western Side South Channel	44	199	1, 263	612, 383	952, 160	36, 065	3, 769, 765	1, 704, 265	345, 240	----	838, 322	28, 831	7, 476
Eastern Side South Channel	52	190	1, 054	623, 349	840, 645	22, 670	3, 467, 117	1, 217, 444	372, 648	----	1, 277, 735	23, 229	15, 664
Northern Edge of Georges	58	420	2, 620	2, 447, 834	9, 086, 219	404, 895	11, 301, 360	7, 201, 024	305, 823	----	1, 452, 995	31, 751	61, 024
Northeast Peak of Georges	62	541	4, 080	5, 593, 405	10, 973, 735	524, 455	18, 656, 239	11, 134, 229	285, 343	----	3, 048, 361	69, 937	81, 009
Central Georges	34	75	404	338, 750	786, 515	25, 300	1, 657, 070	1, 057, 494	26, 860	----	133, 785	5, 016	9, 974
Southeast Georges	34	74	503	818, 285	789, 190	18, 050	2, 283, 535	1, 754, 087	86, 133	----	275, 730	4, 722	12, 538
Southwest Georges	6	7	22	17, 970	32, 850	940	71, 670	47, 920	6, 490	----	11, 640	----	298
Lightship Grounds	3	3	7	2, 605	17, 135	----	14, 020	12, 495	185	----	1, 180	15	9
Nantucket Shoals	4	4	31	22, 360	101, 830	1, 700	147, 450	100, 900	4, 300	----	8, 110	600	120
Southern New England, unclassified	17	21	163	119, 785	277, 925	28, 600	547, 060	315, 785	19, 700	----	92, 228	3, 950	3, 393
Total	[1] 70	2, 638	18, 546	24, 686, 082	51, 452, 933	2, 787, 535	78, 668, 270	28, 986, 988	2, 314, 695	950	12, 411, 025	285, 170	428, 747
Otter trawls, medium:													
Southeast Sable Island Bank	2	2	5	1, 200	250	----	900	125	3, 190	----	350	----	----
Southern Nova Scotia	27	106	840	163, 648	111, 042	7, 885	98, 828	34, 800	64, 358	6, 505	34, 094	3, 965	153
Browns Bank	25	97	744	211, 017	179, 036	1, 565	541, 799	152, 875	52, 346	3, 470	65, 537	4, 473	881
Western Nova Scotia	19	36	319	47, 125	38, 307	1, 620	79, 893	9, 920	29, 572	3, 040	6, 248	5, 975	111
Central Maine	3	4	18	745	540	----	565	35	7, 550	6, 630	780	----	----
Western Maine	14	73	260	32, 950	24, 525	----	60, 050	6, 825	35, 990	79, 200	6, 060	310	508
Eastern Massachusetts	39	215	798	61, 198	92, 935	15, 720	34, 970	69, 900	196, 955	110, 865	2, 584, 300	7, 200	173
Inner Grounds	43	152	701	39, 701	42, 807	5, 405	93, 635	15, 160	76, 795	14, 120	174, 548	37, 632	32
Western Side South Channel	64	417	2, 609	394, 421	441, 899	4, 960	2, 732, 042	1, 343, 837	293, 263	38, 655	197, 877	18, 311	2, 404
Eastern Side South Channel	35	148	968	277, 334	276, 741	14, 500	2, 142, 143	655, 380	143, 330	----	103, 256	11, 402	5, 682
Northern Edge of Georges	24	56	336	122, 259	321, 640	1, 250	898, 775	568, 220	23, 055	----	32, 311	290	3, 554
Northeast Peak of Georges	12	44	303	460, 212	338, 215	850	707, 615	439, 045	9, 109	----	64, 673	315	2, 023
Central Georges	20	85	599	194, 822	268, 350	5, 400	1, 452, 850	679, 563	10, 442	----	78, 592	350	5, 518
Southeast Georges	11	27	188	391, 763	149, 420	450	384, 230	193, 400	4, 675	----	42, 075	----	1, 821
Southwest Georges	11	26	185	12, 375	78, 950	450	591, 720	207, 020	5, 915	----	4, 732	----	4, 898
Lightship Grounds	10	13	91	7, 880	36, 010	----	363, 845	60, 860	4, 540	655	3, 650	----	----
Nantucket Shoals	4	5	28	400	1, 000	100	400	----	315	1, 025	----	----	----
Off No Mans Land	6	8	35	460	810	----	150	----	5, 630	----	300	----	----
Southern New England, unclassified	11	17	88	27, 780	28, 835	100	130, 230	57, 840	8, 070	----	16, 060	200	795
Total	[1] 86	1, 531	9, 115	2, 447, 290	2, 431, 312	60, 255	10, 314, 640	4, 494, 805	975, 100	264, 165	3, 415. 443	90, 423	28. 553

Otter trawls, small:													
Western Nova Scotia	1	2	18	325	515	-----	480	200	355	75	70	50	195
Eastern Maine	1	1	5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Central Maine	18	150	1,060	68,486	41,819	985	213,725	6,215	241,411	109,970	4,155	110	270
Western Maine	48	203	671	52,167	40,676	8,775	98,822	2,200	100,054	197,790	6,165	2,560	192
Eastern Massachusetts	76	1,454	4,422	347,420	459,919	76,115	214,533	52,947	136,059	628,045	788,658	6,005	322
Inner Grounds	38	100	367	22,935	29,035	2,995	34,145	4,635	22,150	20,095	28,935	615	17
Western Side South Channel	40	95	353	52,455	50,945	26,635	104,455	14,295	20,655	23,470	5,095	1,060	10
Eastern Side South Channel	3	8	39	3,205	5,150	-----	52,744	19,560	4,170	300	350	45	-----
Central Georges	1	1	8	-----	1,800	-----	2,646	4,140	180	-----	-----	-----	-----
Lightship Grounds	6	6	34	1,275	9,025	-----	57,200	3,050	2,440	-----	545	-----	-----
Nantucket Shoals	11	26	93	1,280	3,695	-----	1,590	-----	12,145	1,000	200	-----	13
Off No Mans Land	9	17	58	100	970	-----	-----	-----	3,200	-----	75	-----	-----
Southern Massachusetts	3	6	20	-----	-----	-----	-----	-----	3,300	-----	-----	-----	-----
Total	[1] 98	2,069	7,148	549,648	643,549	115,505	780,340	107,242	546,119	980,745	834,248	10,445	1,019
Sink gill nets:													
Western Maine	18	2,212	2,212	1,562,599	480,275	6,244	291,802	1,220	757,295	73,030	1,938,061	9,716	241
Eastern Massachusetts	37	3,842	3,842	1,370,806	952,840	9,780	456,898	1,920	948,384	4,467	8,850,953	4,160	588
Total	[1] 48	6,054	6,054	2,933,405	1,433,115	16,024	748,700	3,140	1,705,679	77,497	10,789,014	13,876	829
Drift gill nets:													
Western Maine	2	18	18	265	595	-----	-----	-----	-----	-----	20	400	-----
Eastern Massachusetts	33	222	262	-----	-----	-----	-----	-----	-----	-----	7,145	-----	-----
Inner Grounds	5	6	16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Western Side South Channel	9	21	68	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Southern Massachusetts	1	1	3	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Total	[1] 35	268	367	[2] 265	[2] 595	-----	-----	-----	-----	-----	[2] 7,165	[2] 400	-----
Purse seines:													
Magdalen Islands	1	1	16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Northeast Cape Breton	1	1	72	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Canso	2	2	19	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Eastern Nova Scotia	4	5	34	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Central Nova Scotia	4	5	51	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Browns Bank	1	1	4	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Central Maine	21	53	256	350	105	65	-----	-----	-----	-----	48,430	-----	-----
Western Maine	8	9	28	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Eastern Massachusetts	61	424	1,222	-----	45	25	-----	-----	80	-----	5,090	-----	-----
Inner Grounds	1	1	5	-----	100	-----	-----	-----	-----	-----	-----	-----	-----
Western Side South Channel	23	36	123	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Lightship Grounds	15	17	67	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Nantucket Shoals	2	2	6	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Off No Mans Land	46	91	369	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

See footnotes at end of table.

Landings by fishing vessels at the three principal New England ports, 1937—Continued

BY GEAR AND FISHING AREAS—Continued

Gear and fishing areas	Vessels fishing	Trips	Days absent	Cod			Haddock		Hake		Pollock	Cusk	Halibut
				Large	Market	Scrod	Large	Scrod	Large	Small			
	Number	*Number*	*Number*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*
Purse seines—Continued													
Southern Massachusetts	1	1	2	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
Rhode Island	7	8	23	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
South	24	34	125	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
Total	[1] 76	691	2,422	[2] 350	[2] 250	[2] 90	--------	--------	[2] 80	--------	[2] 53,520	--------	--------
Scallop drags:													
Northern Edge of Georges	1	1	9	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
Southwest Georges	1	1	5	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
Total	2	2	14	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
Grand total	[1] 373	15,431	56,057	37,539,038	61,640,848	3,207,537	102,909,169	34,266,100	12,255,169	1,948,442	28,674,406	8,027,037	2,010,363

[1] Exclusive of duplication.

[2] Incidental catch.

NOTE.—The 3 principal New England ports are Boston and Gloucester, Mass., and Portland, Maine. Otter trawls are classified according to the size of the vessel. The weight of salted fish landed has been converted to the equivalent of fresh fish as landed. Only landings by vessels having a capacity of 5 net tons or greater are used in this tabulation. "Occasional" after the name of a bank or ground indicates that the vessel or vessels contributing to the catch as shown fished chiefly with another type of gear. In such cases the number of vessels fishing, number of trips, and number of days absent, are shown under the principal type of gear used. The statistics of landings shown in this bulletin do not correspond exactly with the total of the 12 monthly bulletins since some of the monthly figures have been revised.

Landings by fishing vessels at the three principal New England ports, 1937—Continued

BY GEAR AND FISHING AREAS—Continued

Gear and fishing areas	Mackerel	Flounders						Swordfish	Whiting	Wolffish	Rosefish	Herring	Other	Total
		Gray sole	Lemon sole	Yellowtail	Blackback	Dab	Other							
	Pounds	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*
Line trawls:														
Treaty Coast														516,660
Magdalen Islands														1,369,200
Magdalen Islands (occasional)														95,000
Gulf of St. Lawrence, unclassified														336,741
Grand Bank								300						416,330
Green Bank														109,008
St. Pierre Bank														213,153
Northeast Cape Breton														134,681
Banquereau								514						499,365
Middle Ground														106,841
Northeast Sable Island Bank										75				109,771
Southeast Sable Island Bank										460				38,001
Horseshoe Ground		52,700								425				175,209
Southwest Sable Island Bank										1,675				227,029
Eastern Nova Scotia														144,733
Emerald Bank								312		5,870				869,026
Central Nova Scotia										100				79,022
La Have Bank (including Sambro Bank)								1,221		15,425	200			2,395,320
Southern Nova Scotia		840				2,675				44,726				2,411,405
Browns Bank			2,100			1,810		2,200		86,217	150		15	9,495,611
Western Nova Scotia										28,355				2,505,301
Southern Bay of Fundy														120,950
Nova Scotia, unclassified										6,085				654,406
Eastern Maine														66,255
Central Maine		7,300	20			100				1,335	325		208	2,621,364
Western Maine		15			110	335			7,200	535	650		20	314,202
Eastern Massachusetts		425		20,900	3,600	4,115			6,400	22,450	435		1,435	1,846,913
Eastern Massachusetts (occasional)														3,250
Inner Grounds		700		5,000		495			500	8,465	230		48	9,172,271
Western Side South Channel		1,225			150	150	650	437	1,300	1,800	64,210		825	3,215,993
Eastern Side South Channel				4,300		1,900				8,090				2,164,018
Northern Edge of Georges						140				670				836,806
Northeast Peak of Georges										125				290,422
Lightship Grounds														114,960
Nantucket Shoals										100				50,272
Off No Mans Land				14,400					1,800	1,300				100,533
Southern New England, unclassified										110				186,581
Total		63,205	2,120	44,600	3,860	11,720	650	[2] 4,984	17,200	234,393	66,200		2,551	44,006,603

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[2] Incidental catch.

Landings by fishing vessels at the three principal New England ports, 1937—Continued

BY GEAR AND FISHING AREAS—Continued

Gear and fishing areas	Mackerel	Flounders						Swordfish	Whiting	Wolffish	Rosefish	Herring	Other	Total
		Gray sole	Lemon sole	Yellowtail	Blackback	Dab	Other							
Hand lines:	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*
Central Maine (occasional)														1, 435
Western Maine														1, 335
Eastern Massachusetts														8, 694
Eastern Massachusetts (occasional)														690
Western Side South Channel														13, 600
Total														25, 754
Harpoons:														
Grand Bank (occasional)								3, 264						3, 264
Green Bank (occasional)								567						567
Northeast Cape Breton								103, 349					397	103, 746
Banquereau								20, 312						20, 315
Northeast Sable Island Bank								4, 765						4, 762
Horseshoe Ground								1, 301						1, 301
La Have Bank (including Sambro Bank)								4, 140						4, 140
La Have Bank (including Sambro Bank) (occasional)								918						918
Southern Nova Scotia (occasional)								4, 983						4, 983
Browns Bank								363, 109						363, 109
Browns Bank (occasional)								8, 585						8, 585
Western Nova Scotia (occasional)								2, 971						2, 971
Nova Scotia, unclassified								6, 946						6, 946
Western Maine													4, 424	4, 424
Eastern Massachusetts								185						185
Eastern Massachusetts (occasional)													65	65
Western Side South Channel								5, 499						5, 499
Eastern Side South Channel								2, 657						2, 657
Northern Edge of Georges								54, 164						54, 164
Northern Edge of Georges (occasional)								540						540
Northeast Peak of Georges								83, 403						83, 403
Southeast Georges								79, 499						79, 499
Southwest Georges								199, 218						199, 218
Lightship Grounds								75, 808						75, 808
Nantucket Shoals (occasional)								502						502
Off No Mans Land								10, 397						10, 397

Southern New England, unclassified	-----	-----	-----	-----	-----	-----	-----	47, 512	-----	-----	-----	-----	-----	47, 512
South	-----	-----	-----	-----	-----	-----	-----	34, 163	-----	-----	-----	-----	-----	34, 163
Total	-----	-----	-----	-----	-----	-----	-----	1, 118, 757	-----	-----	-----	-----	4, 886	1, 123, 643
Otter trawls, large:														
Newfoundland Banks, unclassified	-----	-----	20	2, 400	-----	500	-----	-----	-----	100	20	-----	-----	420, 547
Misaine Bank	-----	3, 000	5, 000	-----	-----	4, 250	-----	-----	-----	100	-----	-----	-----	126, 001
Banquereau	-----	80, 909	5, 367	298, 545	587	182, 812	87, 530	-----	-----	83, 524	72, 640	-----	2, 229	21, 713, 693
Middle Ground	138	419, 903	2, 997	346, 713	-----	47, 872	42, 340	-----	2, 200	58, 415	15, 303	-----	2, 170	7, 632, 454
Northeast Sable Island Bank	137	32, 445	12, 868	69, 895	240	44, 941	31, 745	-----	-----	79, 651	167, 710	-----	307	7, 890, 121
Southeast Sable Island Bank	-----	36, 670	6, 350	700	-----	13, 517	33, 665	-----	-----	22, 795	-----	-----	-----	1, 927, 263
Horseshoe Ground	-----	1, 475, 346	28, 488	159, 765	228	32, 136	118, 873	-----	1, 500	161, 157	84, 089	-----	827	19, 386, 397
Southwest Sable Island Bank	-----	88, 954	13, 394	24, 776	340	21, 477	14, 793	-----	-----	153, 672	53, 184	-----	188	7, 760, 880
Eastern Nova Scotia	-----	62, 490	180	-----	-----	395	700	-----	-----	1, 530	6, 488	-----	22	246, 991
Emerald Bank	-----	458, 620	7, 893	27, 649	10	48, 411	46, 548	-----	-----	188, 956	18, 525	-----	656	10, 214, 235
Central Nova Scotia	-----	450	270	2, 280	-----	1, 400	-----	-----	-----	240	-----	-----	-----	79, 598
La Have Bank (including Sambro Bank)	-----	4, 268	855	1, 800	50	1, 335	-----	-----	-----	1, 515	62, 307	-----	-----	282, 438
Southern Nova Scotia	-----	256, 240	10, 970	2, 875	350	34, 214	14, 810	-----	280	4, 067	6, 191, 276	-----	103	7, 591, 494
Browns Bank	116	301, 561	44, 698	55, 143	2, 690	78, 395	32, 351	-----	1, 990	216, 079	6, 644, 155	-----	3, 720	21, 481, 840
Western Nova Scotia	-----	4, 950	-----	27, 205	995	1, 760	-----	-----	-----	445	6, 100	-----	-----	1, 349, 019
Nova Scotia, unclassified	-----	107, 630	3, 140	78, 500	-----	3, 590	20, 130	-----	-----	20, 755	263, 081	-----	-----	3, 098, 102
Eastern Massachusetts	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	11, 830
Inner Grounds	-----	860	-----	240	-----	-----	-----	-----	28, 180	80	200, 399	-----	-----	242, 967
Western Side South Channel	202	165, 404	116, 365	28, 182	101, 934	37, 855	8, 430	-----	44, 470	36, 911	7, 363, 613	-----	4, 812	16, 202, 685
Eastern Side South Channel	350	250, 529	114, 100	40, 522	43, 523	250, 491	44, 520	-----	10, 366	51, 378	4, 398, 756	-----	3, 022	13, 068, 058
Northern Edge of Georges	8, 141	101, 926	429, 524	112, 976	48, 687	81, 572	38, 744	-----	31, 311	178, 801	202, 421	-----	10, 533	33, 537, 561
Northeast Peak of Georges	28, 082	59, 286	398, 449	89, 992	26, 325	37, 467	47, 864	-----	3, 560	245, 364	236, 499	-----	21, 971	51, 561, 572
Central Georges	175	21, 603	222, 297	63, 376	25, 765	10, 270	22, 752	-----	4, 048	17, 596	4, 720	-----	658	4, 434, 024
Southeast Georges	4, 735	13, 920	28, 251	28, 725	480	13, 520	9, 215	-----	-----	14, 313	720	-----	12, 871	6, 169, 020
Southwest Georges	-----	55	12, 729	3, 511	2, 972	380	460	-----	-----	535	4, 320	-----	10	214, 750
Lightship Grounds	-----	-----	4, 800	540	-----	-----	280	-----	-----	60	11, 100	-----	-----	64, 424
Nantucket Shoals	-----	-----	7, 835	1, 275	11, 364	-----	-----	-----	-----	1, 800	-----	-----	-----	409, 644
Southern New England, unclassified	-----	19, 835	22, 695	10, 595	8, 580	1, 450	1, 975	-----	-----	6, 259	175, 947	-----	50	1, 655, 812
Total	[2] 42, 076	3, 966, 854	1, 499, 535	1, 478, 180	275, 120	950, 010	617, 725	-----	127, 905	1, 546, 098	26, 183, 373	-----	64, 149	238, 773, 420
Otter trawls, medium:														
Southeast Sable Island Bank	-----	2, 625	-----	-----	-----	1, 000	200	-----	-----	-----	28, 395	-----	-----	38, 235
Southern Nova Scotia	-----	187, 127	2, 250	1, 470	50	49, 505	6, 487	-----	-----	13, 425	5, 814, 689	-----	895	6, 601, 176
Browns Bank	22	125, 226	2, 680	1, 270	1, 010	71, 157	378	-----	500	14, 962	4, 878, 599	-----	150	6, 308, 953
Western Nova Scotia	-----	59, 307	665	500	75	13, 177	290	-----	-----	2, 113	1, 941, 105	-----	-----	2, 239, 043
Central Maine	-----	17, 375	-----	4, 250	800	2, 725	800	-----	-----	110	9, 635	-----	-----	52, 540
Western Maine	-----	357, 350	2, 190	11, 305	2, 700	66, 115	8, 000	-----	78, 150	2, 740	360, 731	-----	1, 830	1, 137, 529
Eastern Massachusetts	600	180, 385	1, 150	96, 912	23, 285	74, 350	2, 895	-----	451, 400	5, 910	304, 925	-----	11, 267	4, 327, 295
Inner Grounds	-----	241, 463	1, 195	9, 235	3, 435	43, 237	-----	-----	15, 898	1, 958	2, 379, 649	-----	5, 000	3, 200, 905
Western Side South Channel	745	287, 467	83, 240	22, 598	93, 360	101, 713	5, 073	-----	119, 742	17, 266	12, 944, 548	-----	23, 555	19, 166, 976

[2] Incidental catch.

Landings by fishing vessels at the three principal New England ports, 1937—Continued

BY GEAR AND FISHING AREAS—Continued

Gear and fishing areas	Mackerel	Flounders						Sword-fish	Whiting	Wolf-fish	Rosefish	Her-ring	Other	Total
		Gray sole	Lemon sole	Yellow-tail	Black-back	Dab	Other							
	Pounds	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*
Otter trawls, medium—Continued														
Eastern Side South Channel	100	89,445	157,510	32,450	33,210	164,447	30,040		27,752	35,091	2,041,684		2,325	6,243,822
Northern Edge of Georges		3,455	69,248	14,460	19,805	37,714	2,390	540	7,525	9,240	34,420		523	2,170,674
Northeast Peak of Georges	73	3,690	54,580	24,052	13,875	4,668	810		25	6,000	4,500		600	2,134,930
Central Georges		4,955	312,949	102,240	75,700	6,493	5,902		463	5,415			275	3,210,279
Southeast Georges		4,890	29,972	13,943	6,585	1,607	470			2,600				1,227,901
Southwest Georges		1,235	168,647	11,410	38,300	1,800	9,565			1,545	2,200		140	1,140,902
Lightship Grounds	585	4,308	1,850	2,550	3,900	5,360	460			485	182,876		60	679,874
Nantucket Shoals		4,000		71,970	925	500	7,550				6,500		9,690	104,375
Off No Mans Land		6,945		123,100		620	1,845		6,500		49,950		13,410	209,720
Southern New England, unclassified		5,460	21,008	7,165	1,760	5,465			1,200	1,285	32,170		450	345,873
Total	[2] 2,125	1,586,708	909,134	550,880	318,775	651,653	83,155	[2] 540	709,155	120,145	31,016,576		70,170	60,541,002
Otter trawls, small:														
Western Nova Scotia		260				1,560				170	14,300			18,555
Eastern Maine		8,000				500	900					1,000		10,400
Central Maine		390,680	1,165	27,680	29,432	115,255	4,765		3,000	13,515	103,640		308	1,376,586
Western Maine		583,515	25,275	74,000	40,435	129,110	10,954	139	236,609	9,427	413,440		11,072	2,043,377
Eastern Massachusetts	600	1,001,690	6,825	980,175	392,905	603,710	2,950		5,191,981	57,405	266,138	400	59,063	11,273,865
Inner Grounds		137,585		34,870	13,265	55,025	65		50,237	2,610	93,815		2,440	555,469
Western Side South Channel		99,808	11,737	67,820	20,755	40,310	2,100		184,648	18,500	159,060		3,410	907,223
Eastern Side South Channel		2,803	60	3,283	140	3,335			5,126	478	700		295	101,744
Central Georges		297	540	207	225					27				10,062
Lightship Grounds			2,830	75,815	1,965		135			230			150	154,660
Nantucket Shoals	165	2,277	6,703	393,300	4,810		815		600	320			1,865	430,778
Off No Mans Land		575		322,390	140		1,930		9,000				3,925	342,305
Southern Massachusetts				89,100									60	92,460
Total	[2] 765	2,227,490	55,135	2,068,640	504,072	948,805	24,614	[2] 139	5,681,201	102,682	1,051,093	[2] 1,400	82,588	17,317,484
Sink gill nets:														
Western Maine	307	1,353		65	2,497	2,326	65		85	1,322	9,257		29,644	5,167,404
Eastern Massachusetts	249	175		1,320	2,075	7,755	570			760	720	4,875	71,143	12,690,438
Total	[2] 556	1,528		1,385	4,572	10,081	635		85	2,082	9,977	[2] 4,875	100,787	17,857,842

Drift gill nets:														
Magdalen Islands (occasional)	176, 580													176, 580
Western Maine	16, 006											37	227	17, 550
Eastern Massachusetts	771, 193								3, 256				5, 958	787, 552
Inner Grounds	86, 300												340	86, 640
Western Side South Channel	274, 350												2, 196	276, 546
Southern Massachusetts	6, 275												225	6, 500
Total	1, 330, 704								[2] 3, 256			[2] 37	8, 946	1, 351, 368
Purse seines:														
Magdalen Islands	161, 730													161, 730
Northeast Cape Breton	770													770
Canso	90, 375													90, 375
Eastern Nova Scotia	196, 470													196, 470
Central Nova Scotia	166, 395													166, 395
Browns Bank	36, 775													36, 775
Central Maine	371, 702											200	10, 670	431, 522
Western Maine	90, 450												2, 000	92, 450
Eastern Massachusetts	2, 226, 648				25								220, 903	2, 452, 816
Eastern Massachusetts (occasional)	3, 355												400	3, 755
Inner Grounds	140													240
Western Side South Channel	382, 690												4, 610	387, 300
Lightship Grounds	390, 300												165	390, 465
Nantucket Shoals	63, 000													63, 000
Nantucket Shoals (occasional)	910													910
Off No Mans Land	2, 310, 710												1, 200	2, 311, 910
Southern Massachusetts	27, 800													27, 800
Rhode Island	282, 140													282, 140
South	1, 124, 035												1, 710	1, 125, 745
Total	7, 926, 395				[2] 25							[2] 200	241, 658	8, 222, 568
Scallop drags:														
Northern Edge of Georges													4, 059	4, 059
Southwest Georges													4, 500	4, 500
Total													8, 559	8, 559
Grand total	9, 302, 621	7, 845, 785	2, 465, 924	4, 143, 685	1, 106, 424	2, 572, 269	726, 779	1, 124, 420	6, 538, 802	2, 005, 400	58, 327, 219	6, 512	584, 294	389, 228, 243

[2] Incidental catch.

Landings by fishing vessels at the three principal New England ports, 1937—Continued

SUMMARY: BY FISHING AREAS

Fishing areas	Vessels fishing	Trips	Days absent	Cod			Haddock		Hake		Pollock	Cusk	Halibut
				Large	Market	Scrod	Large	Scrod	Large	Small			
	Number	*Number*	*Number*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*
Gulf of St. Lawrence (Area XIX):													
Treaty Coast	2	2	207	138,934	314,767	56,683			3,749		2,527		
Magdalen Islands	1	4	152	1,221,700	242,500								
Gulf of St. Lawrence, unclassified	5	7	140	39,779	25,751		6,700		149,075			11,255	104,181
Newfoundland Banks (Area XX):													
Grand Bank	2	6	158	98,496	11,650				7,564				298,320
Green Bank	1	2	48	5,113	233				3,470			2,496	97,696
St. Pierre Bank	2	4	86	2,726	1,900								208,527
Newfoundland Banks, unclassified	3	4	32	62,600	103,700	9,400	220,300	18,080	760		2,560	20	87
Total	[1] 12	29	823	1,569,348	700,501	66,083	227,000	18,080	164,618		5,087	13,771	708,811
Off Nova Scotia (Area XXI):													
Northeast Cape Breton	18	20	415	7,521	3,776		20,255	165	11,200		855	35,300	55,609
Misaine Bank	1	1	12	6,500	22,500	2,700	81,000	500	100		100		251
Banquereau	53	151	1,698	2,998,907	12,114,964	1,017,816	3,881,991	774,350	106,077		200,030	15,226	289,040
Canso	2	2	19										
Middle Ground	38	77	635	977,575	2,236,341	176,815	3,000,470	166,605	68,535		152,715	8,335	13,853
Northeast Sable Island Bank	41	84	649	1,177,898	2,656,991	82,535	2,998,095	296,515	44,560		227,327	30,623	45,334
Southeast Sable Island Bank	17	19	127	530,555	851,125	11,600	352,065	16,265	18,510		58,528	6,805	11,669
Horseshoe Ground	63	188	1,546	3,343,271	3,221,683	93,881	8,672,833	309,915	256,931		1,432,701	49,074	65,783
Southwest Sable Island Bank	44	92	624	1,510,277	1,672,560	60,935	3,591,453	310,620	49,367	190	383,055	5,633	31,366
Eastern Nova Scotia	12	13	72	37,750	50,980	4,400	145,365	12,100	45,260		5,915	16,940	1,209
Emerald Bank	54	130	955	1,340,646	1,299,715	72,443	5,949,622	435,294	266,860		698,280	164,170	52,781
Central Nova Scotia	8	9	75	14,170	16,800		34,340	22,520	40,060		1,622	24,200	168
La Have Bank (including Sambro Bank)	27	51	465	472,047	530,655	20,500	527,030	60,513	372,363		46,933	420,915	137,826
Southern Nova Scotia	66	237	1,763	816,744	759,642	38,745	1,144,003	196,075	338,656	7,030	301,270	351,677	10,909
Browns Bank	124	564	4,529	3,121,337	3,699,368	127,065	11,645,502	2,219,638	829,625	5,060	1,774,137	1,027,070	268,258
Western Nova Scotia	47	96	873	697,496	915,207	24,410	1,019,363	121,185	575,662	3,115	329,303	304,102	18,743
Southern Bay of Fundy	1	3	24	11,250	8,695		70,455	2,020	12,990		895	14,405	240
Nova Scotia, unclassified	32	46	525	551,065	775,660	75,700	1,147,580	155,245	187,100		201,220	138,450	17,577
Total	[1] 160	1,783	15,006	17,615,009	30,836,662	1,809,545	44,281,422	5,099,525	3,223,856	15,395	5,814,886	2,612,925	1,020,616

Off New England (Area XXII):													
Eastern Maine	3	5	53	8, 450	6, 580	480	23, 295	1, 260	7, 050	6, 900	4, 540	6, 220	1, 480
Central Maine	59	367	2, 548	219, 829	163, 369	5, 475	330, 474	9, 430	1, 497, 881	165, 555	132, 148	839, 147	3, 144
Western Maine	94	2, 685	3, 407	1, 682, 951	564, 441	16, 934	505, 104	11, 955	996, 340	369, 310	1, 960, 501	74, 660	2, 058
Eastern Massachusetts	190	6, 860	11, 986	2, 160, 024	1, 975, 994	159, 415	1, 045, 681	126, 902	1, 322, 133	1, 049, 232	12, 372, 751	95, 620	1, 285
Inner Grounds	131	700	3, 157	625, 338	645, 542	29, 600	2, 039, 507	92, 780	2, 115, 359	276, 595	483, 262	3, 503, 485	24, 065
Western Side South Channel	179	836	4, 846	1, 481, 154	1, 893, 424	69, 720	8, 284, 512	3, 134, 617	907, 623	62, 125	1, 170, 589	194, 792	21, 541
Eastern Side South Channel	106	398	2, 394	1, 124, 308	1, 279, 491	37, 545	6, 421, 584	1, 917, 539	1, 052, 308	650	1, 421, 931	443, 111	27, 054
Northern Edge of Georges	100	508	3, 216	2, 824, 740	9, 578, 034	406, 145	12, 435, 370	7, 773, 484	405, 733	--------	1, 510, 481	92, 396	73, 892
Northeast Peak of Georges	98	613	4, 612	6, 172, 997	11, 362, 110	525, 305	19, 426, 754	11, 575, 874	324, 332	--------	3, 118, 928	88, 702	84, 065
Central Georges	55	161	1, 011	533, 572	1, 056, 665	30, 700	3, 112, 566	1, 741, 197	37, 482	--------	212, 377	5, 366	15, 492
Southeast Georges	54	112	836	1, 210, 048	938, 610	18, 500	2, 667, 765	1, 947, 487	90, 808	--------	317, 805	4, 722	14, 359
Southwest Georges	33	52	490	30, 345	111, 800	1, 390	663, 390	254, 940	12, 405	--------	16, 372	--------	5, 196
Lightship Grounds	41	54	351	30, 760	80, 670	--------	506, 365	78, 305	9, 965	655	6, 375	15	469
Nantucket Shoals	20	38	165	34, 470	111, 885	1, 800	178, 140	103, 800	16, 760	2, 025	9, 460	600	1, 765
Off No Mans Land	60	122	514	8, 960	11, 530	200	28, 050	4, 800	14, 330	--------	3, 575	22, 575	708
Southern Massachusetts	5	8	25	--------	--------	--------	--------	--------	3, 300	--------	--------	--------	--------
Rhode Island	7	8	23	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
Southern New England, unclassified	39	52	396	206, 735	323, 540	28, 700	732, 190	374, 125	52, 886	--------	113, 338	28, 930	4, 363
Total	[1] 368	13, 579	40, 030	18, 354, 681	30, 103, 685	1, 331, 909	58, 400, 747	29, 148, 495	8, 866, 695	1, 933, 047	22, 854, 433	5, 400, 341	280, 936
Off Middle Atlantic States (Area XXIII), South	30	40	198	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------
Grand total	[1] 373	15, 431	56, 057	37, 539, 038	61, 640, 848	3, 207, 537	102, 909, 169	34, 266, 100	12, 255, 169	1, 948, 442	28, 674, 406	8, 027, 037	2, 010, 363

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[1] Exclusive of duplication.

Landings by fishing vessels at the three principal New England ports, 1937—Continued

SUMMARY: BY FISHING AREAS—Continued

Area	Mackerel	Flounders						Swordfish	Whiting	Wolffish	Rosefish	Herring	Other	Total
		Gray sole	Lemon sole	Yellowtail	Blackback	Dab	Other							
Gulf of St. Lawrence (Area XIX):	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*
Treaty Coast														516, 660
Magdalen Islands	338, 310													1, 802, 510
Gulf of St. Lawrence, unclassified														336, 741
Newfoundland Banks (Area XX):														
Grand Bank								3, 564						419, 594
Green Bank								567						109, 575
St. Pierre Bank														213, 153
Newfoundland Banks, unclassified			20	2, 400		500				100	20			420, 547
Total	338, 310		20	2, 400		500		4, 131		100	20			3, 818, 780
Off Nova Scotia (Area XXI):														
Northeast Cape Breton	770							103, 349					397	239, 197
Misaine Bank		3, 000	5, 000			4, 250				100				126, 001
Banquereau		80, 909	5, 367	298, 545	587	182, 812	87, 530	20, 826		83, 524	72, 640		2, 229	22, 233, 370
Canso	90, 375													90, 375
Middle Ground	138	419, 903	2, 997	346, 713		47, 872	42, 340		2, 200	58, 415	15, 303		2, 170	7, 739, 295
Northeast Sable Island Bank	137	32, 445	12, 868	69, 895	240	44, 941	31, 745	4, 765		79, 726	167, 710		307	8, 004, 657
Southeast Sable Island Bank		39, 295	6, 350	700		14, 517	33, 865			23, 255	28, 395			2, 003, 499
Horseshoe Ground		1, 528, 046	28, 488	159, 765	228	32, 136	118, 873	1, 301	1, 500	161, 582	84, 089		827	19, 562, 907
Southwest Sable Island Bank		88, 954	13, 394	24, 776	340	21, 477	14, 793			155, 347	53, 184		188	7, 987, 909
Eastern Nova Scotia	196, 470	62, 490	180			395	700			1, 530	6, 488		22	588, 194
Emerald Bank		458, 620	7, 893	27, 649	10	48, 411	46, 548	312		194, 826	18, 525		656	11, 083, 261
Central Nova Scotia	166, 395	450	270	2, 280		1, 400				340				325, 015
La Have Bank (including Sambro Bank)		4, 268	855	1, 800	50	1, 335		6, 279		16, 940	62, 507			2, 682, 816
Southern Nova Scotia		444, 207	13, 220	4, 345	400	86, 394	21, 297	4, 983	280	62, 218	12, 005, 965		998	16, 609, 058
Browns Bank	36, 913	426, 787	49, 478	56, 413	3, 700	151, 362	32, 729	373, 894	2, 490	317, 258	11, 522, 904		3, 885	37, 694, 873
Western Nova Scotia		64, 517	665	27, 705	1, 070	16, 497	290	2, 971		31, 083	1, 961, 505			6, 114, 889
Southern Bay of Fundy														120, 950
Nova Scotia, unclassified		107, 630	3, 140	78, 500		3, 590	20, 130	6, 946		26, 840	263, 081			3, 759, 454
Total	491, 198	3, 761, 521	150, 165	1, 099, 086	6, 625	657, 389	450, 840	525, 626	6, 470	1, 212, 984	26, 262, 296		11, 679	146, 965, 720

Off New England (Area XXII):														
Eastern Maine	--------	8,000	--------	--------	--------	500	900	--------	--------	--------	--------	1,000	--------	76,655
Central Maine	371,702	415,355	1,185	31,930	30,232	118,080	5,565	--------	3,000	14,960	113,600	200	11,186	4,483,447
Western Maine	106,763	942,233	27,465	85,370	45,742	197,886	19,019	139	322,044	14,024	784,078	37	49,217	8,778,271
Eastern Massachusetts	3,002,645	1,182,675	7,975	1,099,307	421,890	689,930	6,415	185	5,653,037	86,525	572,218	5,275	370,234	33,407,348
Inner Grounds	86,440	380,608	1,195	49,345	16,700	98,757	65	--------	94,815	13,113	2,674,093	--------	7,828	13,258,492
Western Side South Channel	657,987	553,904	211,342	118,600	216,199	180,028	16,253	5,936	350,160	74,477	20,531,431	--------	39,408	40,175,822
Eastern Side South Channel	450	342,777	271,670	80,555	76,873	420,173	74,560	2,657	43,244	95,037	6,441,140	--------	5,642	21,580,299
Northern Edge of Georges	8,141	105,381	498,772	127,436	68,492	119,426	41,134	55,244	38,836	188,711	236,841	--------	15,115	36,603,804
Northeast Peak of Georges	28,155	62,976	453,029	114,044	40,200	42,135	48,674	83,403	3,585	251,489	240,999	--------	22,571	54,070,327
Central Georges	175	26,855	535,786	165,823	101,690	16,763	28,654	--------	4,511	23,038	4,720	--------	933	7,654,365
Southeast Georges	4,735	18,810	58,223	42,668	7,065	15,127	9,685	79,499	--------	16,913	720	--------	12,871	7,476,420
Southwest Georges	--------	1,290	181,376	14,921	41,272	2,180	10,025	199,218	--------	2,080	6,520	--------	4,650	1,559,370
Lightship Grounds	390,885	4,308	9,480	78,905	5,865	5,360	875	75,808	--------	775	193,976	--------	375	1,480,191
Nantucket Shoals	64,075	6,277	14,538	466,545	17,099	500	8,365	502	600	2,220	6,500	--------	11,555	1,059.481
Off No Mans Land	2,310,710	7,520	--------	459,890	140	620	3,775	10,397	17,300	1,300	49,950	--------	18,535	2,974,865
Southern Massachusetts	34,075	--------	--------	89,100	--------	--------	--------	--------	--------	--------	--------	--------	285	126,760
Rhode Island	282,140	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	282,140
Southern New England, unclassified	--------	25,295	43,703	17,760	10,340	6,915	1,975	47,512	1,200	7,654	208,117	--------	500	2,235,778
Total	7,349,078	4,084,264	2,315,739	3,042,199	1,099,799	1,914,380	275,939	560,500	6,532,332	792,316	32,064,903	6,512	570,905	237,283,835
Off Middle Atlantic States (Area XXIII), South	1,124,035	--------	--------	--------	--------	--------	--------	34,163	--------	--------	--------	--------	1,710	1,159,908
Grand total	9,302,621	7,845,785	2,465,924	4,143,685	1,106,424	2,572,269	726,779	1,124,420	6,538,802	2,005,400	58,327,219	6,512	584,294	389,228,243

NOTE.—The weight of salted fish landed has been converted to the equivalent of fresh fish as landed. The roman numerals appearing in the stub of the above table refer to the numbers given these regions by the North American Council on Fishery Investigations.

MACKEREL FISHERY OF THE ATLANTIC COAST[5]

The mackerel season of 1937 extended from April 12, 1937, to January 13, 1938. Ninety-six vessels landed 13,997,200 pounds, which represents a decrease of 65 percent as compared with corresponding landings of the preceding year.

Of the total landings, about 1,000,000 pounds were tinkers (fish under 1 pound) while the remainder were of larger sizes. The tinkers were caught between July 1 and October 31.

The fishery was unusual because of its small yield (one of the lowest since the fishery began) and the comparative failure of the Gulf of Maine region. The season was unique in that it was the first to extend into January.

In this analysis, vessels include United States craft of 5 net tons capacity or over. Vessels are classed as "regular" and "miscellaneous" on the basis of their effort throughout the whole mackerel season. Regular seiners fished in all three major areas and were active for more than two-thirds the duration of the Gulf of Maine fishery. Miscellaneous seiners are those who did not fish in the Southern area, or ceased seining activity for three months or more during the time of Gulf of Maine fishery. All netters are considered miscellaneous, inasmuch as each one enters the mackerel fishery for only a portion of the year. Craft using purse seines may change gear and engage in netting for a portion of the season, and during this time are classed as netters. Allowance for such duplication has been made in the summary "Operating Units and Catch."

Division of the whole mackerel season into three periods is determined by the gill-net fishery. The end of the early netting season terminates the period "Spring." Resumption of netting in the fall marks the beginning of the period "Fall and Winter." "Summer" is included between these two periods.

Mackerel fishery of the Atlantic coast, 1937 [1]

CATCH: BY AREAS IN 5-DAY PERIODS

Date	South (Area XXIII)		Block Island (Area XXII west of Nantucket Shoals)		Gulf of Maine (Area XXII north of Nantucket Shoals)		Nova Scotia (Area XXI)	Total
	Seiners	Netters	Seiners	Netters	Seiners	Netters	Seiners	
SPRING	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*
Apr. 11–15	130, 700							130, 700
Apr. 16–20	281, 800	3, 700						285, 500
Apr. 21–25	573, 500	9, 800						583, 300
Apr. 26–30		9, 000						9, 000
May 1–5	93, 200	68, 100						161, 300
May 6–10	579, 800	47, 800						627, 600
May 11–15	728, 100	71, 200	134, 300					933, 600
May 16–20	231, 900	51, 900	1, 277, 100	1, 400				1, 562, 300
May 21–25		15, 000	827, 300	10, 100				852, 400
May 26–31			421, 000	600		3, 400		425, 000
June 1–5			307, 800	9, 300		5, 000	137, 600	459, 700
June 6–10			527, 600	5, 800	25, 000	3, 500	167, 700	729, 600

[1] Includes the catch made between Jan. 1 and 15, 1938.

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[5] This section, prepared by J. R. Webster of the Division of Scientific Inquiry, includes landings at Cape May and Wildwood, N. J.; New York, N. Y.; Newport and Block Island, R. I.; New Bedford, Buzzards Bay (Cape Cod Canal), Provincetown, Plymouth, Boston, and Gloucester, Mass.; and Portland, Maine; by purse-seine vessels or "seiners" and drift-gill-net vessels or "netters". It does not include incidental catches by other vessels such as menhaden seiners, otter trawlers, line trawlers, etc., or by traps.

Mackerel fishery of the Atlantic coast, 1937—Continued

CATCH: BY AREAS IN 5-DAY PERIODS—Continued

Date	South (Area XXIII)		Block Island (Area XXII west of Nantucket Shoals)		Gulf of Maine (Area XXII north of Nantucket Shoals)		Nova Scotia (Area XXI)	Total
	Seiners	Netters	Seiners	Netters	Seiners	Netters	Seiners	
SPRING—contd.	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*
June 11-15			143, 900	7, 100	18, 300	3, 500	158, 300	331, 100
June 16-20				100	130, 000	4, 000		134, 100
June 21-25				100	16, 800	1, 900	31, 500	50, 300
June 26-30					12, 400	400		12, 800
July 1-5					112, 100	100		112, 200
SUMMER								
July 6-10					51, 400			51, 400
July 11-15					420, 300			420, 300
July 16-20					314, 800			314, 800
July 21-25					259, 200			259, 200
July 26-31					265, 800			265, 800
Aug. 1-5					134, 000			134, 000
Aug. 6-10					31, 300			31, 300
Aug. 11-15					29, 100			29, 100
Aug. 16-20					94, 100			94, 100
Aug. 21-25					57, 000			57, 000
Aug. 26-31				300	175, 300			175, 600
Sept. 1-5				200	48, 700			48, 900
Sept. 6-10				100	16, 400			16, 500
Sept. 11-15					150, 300			150, 300
Sept. 16-20					102, 300			102, 300
Sept. 21-25					148, 800			148, 800
Sept. 26-30					47, 700			47, 700
FALL AND WINTER								
Oct. 1-5					728, 200	800		729, 000
Oct. 6-10					47, 700	200		47, 900
Oct. 11-15					14, 700	100		14, 800
Oct. 16-20					100	100		200
Oct. 21-25						800	800	1, 600
Oct. 26-31					6, 900	800		7, 700
Nov. 1-5			219, 000			300		219, 300
Nov. 6-10			69, 600			1, 000		70, 600
Nov. 11-15			400, 000		8, 000	14, 500		422, 500
Nov. 16-20						213, 300		213, 300
Nov. 21-25			5, 200		77, 600	210, 400		293, 200
Nov. 26-30	62, 200		96, 900		109, 000	310, 000		578, 100
Dec. 1-5	673, 300					185, 900		859, 200
Dec. 6-10	45, 400					259, 800		305, 200
Dec. 11-15	147, 800					45, 200		193, 000
Dec. 16-20						36, 900		36, 900
Dec. 21-25	4, 000					22, 300		26, 300
Dec. 26-31	19, 000					6, 700		25, 700
Jan. 1-5	25, 000							25, 000
Jan. 6-10	81, 000							81, 000
Jan. 11-15	99, 100							99, 100
Total	3, 775, 800	276, 500	4, 429, 700	35, 100	3, 653, 300	1, 330, 900	495, 900	13, 997, 200

NOTE.—The roman numerals appearing in the box heads of the above table refer to the numbers given these areas by the North American Council on Fishery Investigations.

Mackerel fishery of the Atlantic coast, 1937—Continued

OPERATING UNITS AND CATCH: BY GEAR CLASSIFICATION AND GROUNDS

[Vessels of 5 net tons and over]

Designation	Vessels	Tonnage	Crew	Trips	Total catch
SOUTH—AREA XXIII					
Seiners:					
Spring:	*Number*	*Net tons*	*Number*	*Number*	*Pounds*
Regular vessels	27	1,111	351	114	1,904,800
Miscellaneous vessels	15	586	178	46	714,200
Fall and winter:					
Regular vessels	19	775	250	37	1,011,800
Miscellaneous vessels	6	229	75	13	145,000
Netters:					
Spring	5	114	33	26	276,500
Total	[1] 47	[1] 1,862	[1] 581	236	4,052,300
BLOCK ISLAND					
(Area XXII west of Nantucket Shoals)					
Seiners:					
Spring:					
Regular vessels	26	1,097	339	103	2,053,000
Miscellaneous vessels	24	851	293	68	1,586,000
Fall and winter:					
Regular vessels	21	926	277	40	790,700
Netters:					
Spring	6	128	38	22	34.500
Summer	1	14	5	5	600
Total	[1] 55	[1] 2,058	[1] 663	238	4,464,800
GULF OF MAINE					
(Area XXII north of Nantucket Shoals)					
Seiners:					
Spring:					
Regular vessels	18	718	231	29	127,900
Miscellaneous vessels	27	698	276	51	186,700
Summer:					
Regular vessels	27	1,111	351	227	1,515,900
Miscellaneous vessels	34	713	315	247	830,600
Fall and winter:					
Regular vessels	25	1,049	326	77	820,000
Miscellaneous vessels	14	267	129	25	172,200
Netters:					
Spring	6	76	33	33	21,800
Fall and winter	27	482	188	262	1,309,100
Total	[1] 88	[1] 2,375	[1] 893	951	4,984,200
NOVA SCOTIA—AREA XXI					
Seiners:					
Spring:					
Regular vessels	4	209	55	6	211,200
Miscellaneous vessels	5	254	69	7	283,900
Fall:					
Miscellaneous vessels	1	62	16	1	800
Total	[1] 9	[1] 463	[1] 124	14	495,900
SUMMARY					
Seiners:					
Regular	[1] 27	[1] 1,111	[1] 351	634	8,435,300
Miscellaneous	[1] 48	[1] 1,234	[1] 487	457	3,919,400
Netters	[1] 33	[1] 588	[1] 223	348	1,642,500
Grand total	[1] 96	[1] 2,704	[1] 980	1,439	13,997,200

[1] Exclusive of duplication.

FISHERIES OF THE MIDDLE ATLANTIC STATES

(Area XXIII)[6]

The yield of the commercial fisheries of the Middle Atlantic States (New York, New Jersey, Pennsylvania, and Delaware) during 1937 amounted to 264,651,900 pounds, valued at $7,895,990 to the fishermen, representing a decrease of 5 percent in volume but an increase of 23 percent in value as compared with the catch in 1935, the most recent previous year for which catch statistics are available. These fisheries gave employment to 7,720 fishermen, as compared with 9,620 in 1935.

There were 419 fishery wholesale and manufacturing establishments in the 4 States in 1937 as compared with 408 in 1935 when the most recent previous survey was made. In 1937 these establishments employed 6,839 persons, paid $8,611,693 in salaries and wages, and produced manufactured products (canned, cured, packaged, and byproducts), valued at $18,658,605. In 1935 the wholesale and manufacturing firms employed 6,143 persons, paid $6,666,507 in salaries and wages, and produced manufactured products valued at $13,441,812.

Fisheries of the Middle Atlantic States, 1937

SUMMARY OF CATCH

Product	New York		New Jersey		Pennsylvania	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Fish	64,882,400	$1,531,483	115,471,800	$1,899,388	34,700	$4,632
Shellfish, etc	19,278,100	2,839,563	14,044,400	1,301,570		
Total	84,160,500	4,371,046	129,516,200	3,200,958	34,700	4,632

Product	Delaware		Total	
	Pounds	*Value*	*Pounds*	*Value*
Fish	49,804,600	$264,769	230,193,500	$3,700,272
Shellfish, etc	1,135,900	54,585	34,458,400	4,195,718
Total	50,940,500	319,354	264,651,900	7,895,990

OPERATING UNITS: BY STATES

Item	New York	New Jersey	Pennsylvania	Delaware	Total
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	1,158	1,132		337	2,627
On boats and shore:					
Regular	1,104	992		25	2,121
Casual	1,027	1,581	34	330	2,972
Total	3,289	3,705	34	692	7,720
Vessels:					
Steam	1			9	10
Net tonnage	45			1,167	1,212
Motor	244	187		7	438
Net tonnage	3,989	3,197		138	7,324
Sail		3			3
Net tonnage		32			32
Total vessels	245	190		16	451
Total net tonnage	4,034	3,229		1,305	8,568

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[6] This is the number given to this area by the North American Council on Fishery Investigations. It should be explained that there are included in this area craft whose principal fishing ports are in the area but at times fish elsewhere. A notable example is the southern trawl fishery which extends into area XXIV. It should be observed that the persons engaged, gear and craft employed, and catch of the seed-oyster fishery are not included among the statistics of the fishery for market oysters and other species but are shown in separate tables in this section. For a clearer understanding of the statistics published in this section, the reader is referred to the section in the latter part of this document entitled "Statistical survey procedure."

Fisheries of the Middle Atlantic States, 1937—Continued

OPERATING UNITS: BY STATES—Continued

Item	New York	New Jersey	Pennsylvania	Delaware	Total
Boats:	*Number*	*Number*	*Number*	*Number*	*Number*
Motor	511	971		22	1,504
Other	808	1,317	8	128	2,261
Accessory boats	125	71		27	223
Apparatus:					
Purse seines:					
Mackerel	3				3
Length, yards	1,330				1,330
Menhaden	9	6		9	24
Length, yards	3,530	1,680		4,335	9,545
Other	1	8	8		17
Length, yards	400	2,790	1,650		4,840
Haul seines	71	121		47	239
Length, yards	13,625	9,573		11,715	34,913
Gill nets:					
Anchor	11	6			17
Square yards	666	9,340			10,006
Drift	189	678		26	893
Square yards	596,986	470,822		51,925	1,119,733
Runaround	4	52		10	66
Square yards	9,840	189,590		8,210	207,640
Stake	354	579		27	960
Square yards	88,936	219,175		14,180	322,291
Lines:					
Hand	105	444		8	557
Hooks	105	885		16	1,006
Trawl	3,894	566		1	4,461
Hooks	248,660	373,000		3,000	624,660
Troll		482			482
Hooks		482			482
Trot with baits or snoods	72	21			93
Baits or snoods	44,000	14,806			58,806
Trot with hooks	14	1			15
Hooks	2,385	150			2,535
Pound nets	136	191		17	344
Weirs		91			91
Stop nets		59		11	70
Square yards		63,317		1,580	64,897
Fyke nets	573	832		233	1,638
Dip nets	36	28		67	131
Cast nets		3		1	4
Drag nets		12			12
Yards at mouth		24			24
Drop nets		40			40
Push nets		13			13
Otter trawls:					
Fish	152	60			212
Yards at mouth	3,108	1,367			4,475
Shrimp	1				1
Yards at mouth	23				23
Wire baskets		25			25
Eel traps	60				60
Pots:					
Crab		10			10
Eel	1,488	1,476		340	3,304
Fish	1,110	10,047			11,157
Lobster	13,850	9,699		115	23,664
Harpoons	13				13
Spears	56	40			96
Dredges:					
Clam	42	72		10	124
Yards at mouth	42	74		12	128
Crab	7	58		8	73
Yards at mouth	12	84		10	106
Mussel	2				2
Yards at mouth	2				
Oyster:					
Common	104	176		10	290
Yards at mouth	145	214		14	373
Suction	1				1
Yards at mouth	2				2
Scallop	72	6			78
Yards at mouth	244	20			264
Tongs:					
Oyster	313	187			500
Other	1,287	572		3	1,862
Rakes:					
Oyster		34			34
Other	177	871			1,048
Forks	402				402
Hoes		101			101

Fisheries of the Middle Atlantic States, 1937—Continued

CATCH: BY STATES

Species	New York		New Jersey		Pennsylvania		Delaware		Total	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	221, 800	$3, 889	423, 100	$4, 222			69, 900	$1, 402	714, 800	$9, 513
Bluefish	858, 100	68, 392	1, 484, 300	101, 623			5, 500	385	2, 347, 900	170, 400
Bonito	50, 400	2, 061	174, 400	7, 442					224, 800	9, 503
Butterfish	1, 900, 200	112, 465	3, 055, 700	116, 875					4, 955, 900	229, 340
Carp	135, 700	9, 466	323, 900	22, 824	3, 500	$210	44, 800	3, 584	507, 900	36, 084
Catfish and bullheads	24, 100	2, 479	60, 200	2, 446			30, 800	927	115, 100	5, 852
Cero			51, 100	1, 272					51, 100	1, 272
Cod	3, 802, 500	153, 818	2, 564, 900	67, 815			48, 000	1, 680	6, 415, 400	223, 313
Croaker	29, 900	315	3, 934, 300	67, 443			271, 800	3, 216	4, 236, 000	70, 974
Cusk	90, 900	1, 283							90, 900	1, 283
Drum:										
Black			5, 100	73					5, 100	73
Red or redfish	100	1	10, 100	200					10, 200	201
Eels:										
Common	172, 400	10, 075	272, 400	26, 307			33, 600	4, 928	478, 400	41, 310
Conger	1, 000	22	31, 000	520					32, 000	542
Flounders:										
Gray sole	89, 100	6, 261	5, 100	163					94, 200	6, 424
Lemon sole	145, 800	9, 610							145, 800	9, 610
Yellowtail and dab	2, 817, 060	126, 579	13, 800	367					2, 830, 800	126, 946
Blackback	2, 736, 800	145, 876	134, 500	5, 077					2, 871, 300	150, 953
Fluke	2, 098, 300	104, 113	2, 152, 200	171, 907					4, 250, 500	276, 020
Unclassified	679, 100	33, 953					4, 200	214	683, 300	34, 167
Frigate mackerel	26, 500	265	158, 200	1, 925					184, 700	2, 190
Gizzard shad							500	10	500	10
Grayfish	100	2	57, 600	543					57, 700	545
Groupers			21, 500	978					21, 500	978
Haddock	2, 281, 900	75, 757							2, 281, 900	75, 757
Hake	317, 200	4, 107	49, 500	1, 437					366, 700	5, 544
Halibut	2, 800	291							2, 800	291
Herring, sea	4, 600	46	365, 900	3, 500					370, 500	3, 546
Hickory shad			2, 000	32					2, 000	32
Kingfish or "king mackerel"			149, 500	5, 677					149, 500	5, 677
King whiting or "kingfish"	72, 600	893	78, 300	3, 048					150, 900	3, 941
Mackerel	1, 447, 900	35, 078	1, 669, 100	59, 393					3, 117, 000	94, 471
Menhaden	31, 892, 000	164, 431	67, 756, 000	264, 315			48, 857, 000	227, 831	148, 505, 000	656, 577
Mullet			500	14			64, 400	2, 582	64, 900	2, 596
Mummichog	1, 300	140							1, 300	140
Pigfish			100	2					100	2
Pollock	116, 100	3, 018	1, 500	45					117, 600	3, 063
Pompano			100	35					100	35

Fisheries of the Middle Atlantic States, 1937—Continued

CATCH: BY STATES—Continued

Species	New York		New Jersey		Pennsylvania		Delaware		Total	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Rosefish	1,500	$15							1,500	$15
Rudderfish			2,100	$21					2,100	21
Scup or porgy	1,707,100	50,449	5,044,800	84,718					6,751,900	135,167
Sea bass	527,400	38,557	2,111,300	115,834					2,638,700	154,391
Sea robin	16,000	325	55,400	597					71,400	922
Shad	1,021,400	76,863	3,339,500	322,730	12,600	$3,522	20,500	$3,247	4,394,000	406,362
Sharks	22,200	1,137	43,700	690					65,900	1,827
Skates	63,300	642	57,700	437					121,000	1,079
Smelt	600	76							600	76
Snapper, red			53,900	3,794					53,900	3,794
Spanish mackerel	100	2	50,300	4,200					50,400	4,202
Spot	300	5	14,800	310			3,000	150	18,100	465
Squeteagues or "sea trout," gray	1,457,100	58,711	10,515,200	290,849			292,100	8,763	12,264,400	358,323
Squirrel hake	5,000	98	115,200	1,162					120,200	1,260
Striped bass	132,000	11,702	241,200	31,738			31,800	3,548	405,000	46,988
Sturgeon	1,200	275	6,300	645			400	74	7,900	994
Suckers	29,900	1,986	21,100	1,090	18,600	900			69,600	3,976
Sunfish	1,600	93							1,600	93
Swellfish	56,100	579	100	1					56,200	580
Swordfish	109,000	20,216							109,000	20,216
Tautog	5,900	80	14,200	289			1,100	33	21,200	402
Thimble-eyed mackerel	47,900	1,477	15,100	275					63,000	1,752
Tilefish	2,389,600	101,864	300	15					2,389,900	101,879
Tomcod	3,100	120							3,100	120
Tuna	43,400	2,218	50,700	1,748					94,100	3,966
White perch			82,900	8,236			19,000	1,893	101,900	10,129
Whiting	5,189,200	87,117	8,623,700	91,809					13,812,900	178,926
Wolffish	5,800	139							5,800	139
Yellow perch	29,500	2,051	5,700	666			6,200	302	41,400	3,019
Yellowtail			700	14					700	14
Total	64,882,400	1,531,483	115,471,800	1,899,388	34,700	4,632	49,804,600	264,769	230,193,500	3,700,272
SHELLFISH, ETC.										
Crabs:										
Hard	511,100	11,350	635,600	21,904			264,400	4,708	1,411,100	37,962
Soft and peelers	12,500	2,500	59,600	20,081			78,500	14,894	150,600	37,475
King			2,766,500	7,221			489,000	854	3,255,500	8,075
Lobsters	366,800	75,693	268,800	56,078			4,300	1,290	639,900	133,061
Shrimp	78,800	6,996	37,100	9,275					115,900	16,271
Clams:										
Hard, public [1]	2,147,900	374,543	2,211,500	383,275			7,600	920	4,367,000	758,738

Hard, private [1]	383, 500	67, 914	311, 700	47, 497			16, 000	2, 330	711, 200	117, 741
Soft, public [2]	770, 000	85, 445	1, 177, 700	68, 646					1, 947, 700	154, 091
Soft, private [2]	12, 800	1, 536							12, 800	1, 536
Surf or skimmer	971, 800	60, 114	613, 900	18, 984					1, 585, 700	79, 098
Conchs	12, 600	1, 236							12, 600	1, 236
Mussels, sea	90, 700	5, 262					2, 800	173	93, 500	5, 435
Oysters, market: [3]										
Public, spring	499, 700	83, 950	53, 000	11, 435					552, 700	95, 385
Public, fall	200, 200	32, 432	143, 300	13, 339					343, 500	45, 771
Private, spring	4, 227, 700	748, 303	1, 935, 400	262, 928					6, 163, 100	1, 011, 231
Private, fall	4, 856, 900	845, 101	2, 431, 000	343, 890			270, 200	29, 170	7, 558, 100	1, 218, 161
Scallops:										
Bay	36, 000	8, 650							36, 000	8, 650
Sea	2, 818, 700	329, 255	234, 100	13, 659					3, 052, 800	342, 914
Squid	1, 207, 200	44, 471	1, 145, 700	22, 386					2, 352, 900	66, 857
Terrapin, diamond-back			700	261					700	261
Turtles:										
Hawksbill			3, 900	78					3, 900	78
Loggerhead			6, 700	122					6, 700	122
Snapper			8, 200	511			3, 100	246	11, 300	757
Bloodworms	34, 700	27, 040							34, 700	27, 040
Sandworms	38, 500	27, 772							38, 500	27, 772
Total	19, 278, 100	2, 839, 563	14, 044, 400	1, 301, 570			1, 135, 900	54, 585	34, 458, 400	4, 195, 718
Grand total	84, 160, 500	4, 371, 046	129, 516, 200	3, 200, 958	34, 700	4, 632	50, 940, 500	319, 354	264, 651, 900	7, 895, 990

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[1] Statistics on hard clams are based on yields of 8 pounds of meat to the bushel in New York, 8.07 pounds in New Jersey, and 10 pounds in Delaware.

[2] Statistics on soft clams are based on yields of 16 pounds of meat to the bushel in New York, and 20 pounds in New Jersey.

[3] Statistics on oysters are based on yields of 7 pounds of meat to the bushel in New York, 6.05 pounds in New Jersey, and 7 pounds in Delaware.

NOTE.—The above includes the catch made by Middle Atlantic craft in the southern trawl fishery as well as in other fisheries in the South Atlantic.

Fisheries of the Middle Atlantic States, 1937—Continued

SUPPLEMENTARY TABLE SHOWING THE PRODUCTION OF CERTAIN SHELLFISH IN NUMBER AND BUSHELS

Product	New York		New Jersey		Delaware		Total	
	Quantity	*Value*	*Quantity*	*Value*	*Quantity*	*Value*	*Quantity*	*Value*
Crabs:								
Hard..........number..	1,533,300	$11,350	1,906,800	$21,904	793,200	$4,708	4,233,300	$37,962
King..........do....	---------	-------	691,625	7,221	122,250	854	813,875	8,075
Soft and peelers..........do....	50,000	2,500	238,400	20,081	314,000	14,894	602,400	37,475
Clams:								
Hard, public..........bushels..	268,488	374,543	274,040	383,275	760	920	543,288	758,738
Hard, private..........do....	47,938	67,914	38,624	47,497	1,600	2,330	88,162	117,741
Soft, public..........do....	48,125	85,445	58,885	68,646	---------	-------	107,010	154,091
Soft, private..........do....	800	1,536	---------	-------	---------	-------	800	1,536
Surf or skimmer..........do....	80,983	60,114	34,489	18,984	---------	-------	115,472	79,098
Conchs..........do....	700	1,236	---------	-------	---------	-------	700	1,236
Mussels, sea..........do....	9,070	5,262	---------	-------	233	173	9,303	5,435
Oysters, market:								
Public, spring..........do....	71,386	83,950	8,760	11,435	---------	-------	80,146	95,385
Public, fall..........do....	28,600	32,432	23,686	13,339	---------	-------	52,286	45,771
Private, spring..........do....	603,957	748,303	319,901	262,928	---------	-------	923,858	1,011,231
Private, fall..........do....	693,843	845,101	401,818	343,890	38,600	29,170	1,134,261	1,218,161
Scallops:								
Bay..........do....	7,200	8,650	---------	-------	---------	-------	7,200	8,650
Sea..........do....	469,783	329,255	39,017	13,659	---------	-------	508,800	342,914

SEED OYSTER FISHERY

Item	New York		New Jersey		Delaware		Total	
OPERATING UNITS								
	Number		*Number*		*Number*		*Number*	
Fishermen:								
On vessels..........	28		1,158		40		1,226	
On boats and shore:								
Regular..........	109		83		----------		192	
Casual..........	39		120		----------		159	
Total..........	176		1,361		40		1,577	
Vessels:								
Motor..........	5		2		----------		7	
Net tonnage..........	149		23		----------		172	
Sail..........	----------		103		5		108	
Net tonnage..........	----------		2,371		89		2,460	
Total vessels..........	5		105		5		115	
Total net tonnage..........	149		2,394		89		2,632	
Boats:								
Motor..........	20		75		----------		95	
Other..........	128		121		----------		249	
Apparatus:								
Dredges..........	10		210		10		230	
Yards at mouth..........	19		260		12		291	
Tongs..........	148		198		----------		346	
Rakes..........	----------		5		----------		5	
CATCH								
	Bushels	*Value*	*Bushels*	*Value*	*Bushels*	*Value*	*Bushels*	*Value*
Oysters, seed:								
Public, spring..........	39,829	$34,995	1,061,010	$403,870	83,600	$13,800	1,184,439	$452,665
Public, fall..........	12,783	13,760	11,540	2,980	--------	--------	24,323	16,740
Private, spring..........	5,766	4,996	----------	--------	--------	--------	5,766	4,996
Private, fall..........	32,161	33,290	----------	--------	--------	--------	32,161	33,290
Total..........	90,539	87,041	1,072,550	406,850	83,600	13,800	1,246,689	507,691

NOTE.—Of the total number of persons fishing for seed oysters, 1,517 are duplicated among those fishing for market oysters or other species. Similarly, the following craft and gear are duplicated: 60 vessels, 92 motor boats, 248 other boats, 122 dredges, 341 tongs, and 4 rakes.

Industries related to the fisheries of the Middle Atlantic States, 1937

OPERATING UNITS, SALARIES, AND WAGES

Item	New York	New Jersey	Pennsylvania	Delaware	Total
Transporting:					
Persons engaged:	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	40	17	-----	-----	57
On boats	-----	69	-----	-----	69
Total	40	86	-----	-----	126
Vessels, motor	13	7	-----	-----	20
Net tonnage	298	134	-----	-----	432
Boats	-----	68	-----	-----	68
Wholesale and manufacturing:					
Establishments	235	126	42	16	419
Persons engaged:					
Proprietors	50	106	37	18	211
Salaried employees	762	156	82	20	1,020
Wage earners:					
Average for season	3,363	1,529	346	370	5,608
Average for year	2,820	967	270	172	4,229
Paid to salaried employees	$2,415,285	$347,792	$142,174	$25,409	$2,930,660
Paid to wage earners	$4,269,005	$917,604	$338,864	$155,560	$5,681,033
Total salaries and wages	$6,684,290	$1,265,396	$481,038	$180,969	$8,611,693
Fishermen, manufacturing	236	49	-----	-----	285

PRODUCTS MANUFACTURED

Item	New York		New Jersey		Pennsylvania		Delaware	
By manufacturing establishments:								
Buffalofish, smoked pounds	*Quantity* 893,800	*Value* $235,133	*Quantity* -----	*Value* -----	*Quantity* -----	*Value* -----	*Quantity* -----	*Value* -----
Butterfish, smoked do	612,900	157,382	74,365	$22,626	(1)	(1)	-----	-----
Carp, smoked do	-----	-----	67,700	25,776	-----	-----	-----	-----
Cisco, chubs, and tullibees, smoked pounds	3,465,500	1,020,600	229,000	87,080	(1)	(1)	-----	-----
Cod, fresh fillets do	3,747,500	473,675	493,500	58,009	-----	-----	-----	-----
Flounders, fresh fillets pounds	1,471,000	258,655	205,500	31,500	-----	-----	-----	-----
Haddock, fresh fillets pounds	1,664,000	206,515	1,518,700	175,377	-----	-----	-----	-----
Hake, fresh fillets do	94,000	10,700	-----	-----	-----	-----	-----	-----
Herring, sea, kippered pounds	163,800	21,426	-----	-----	(1)	(1)	-----	-----
Herring, sea, bloaters, smoked pounds	-----	-----	55,300	7,810	(1)	(1)	-----	-----
Lake trout, smoked pounds	189,500	89,702	(1)	(1)	(1)	(1)	-----	-----
Mackerel, smoked do	766,300	110,732	(1)	(1)	(1)	(1)	-----	-----
Pollock, fresh fillets pounds	27,000	3,100	-----	-----	-----	-----	-----	-----
Paddlefish or spoonbill cat, smoked pounds	308,600	127,150	-----	-----	-----	-----	-----	-----
Salmon:								
Smoked do	6,706,900	1,952,117	418,975	145,981	(1)	(1)	-----	-----
Kippered do	146,600	43,890	95,600	35,000	(1)	(1)	-----	-----
Roe, canned standard cases	1,534	36,001	-----	-----	-----	-----	-----	-----
Shad, smoked pounds	79,500	15,593	(1)	(1)	(1)	(1)	-----	-----
Sturgeon:								
Smoked do	1,162,700	787,194	210,949	155,496	(1)	(1)	-----	-----
Caviar, canned standard cases	3,053	435,370	-----	-----	-----	-----	-----	-----
Whale products:								
Sperm oil gallons	5,837	1,500	-----	-----	-----	-----	-----	-----
Whale oil do	8,270,752	3,693,169	-----	-----	-----	-----	-----	-----
Whitefish:								
Smoked pounds	1,636,000	456,483	155,000	52,085	(1)	(1)	-----	-----
Caviar, canned standard cases	502	14,785	-----	-----	-----	-----	-----	-----

See footnotes at end of table.

Industries related to the fisheries of the Middle Atlantic States, 1937—Continued

PRODUCTS MANUFACTURED—Continued

Item	New York		New Jersey		Pennsylvania		Delaware	
	Quantity	*Value*	*Quantity*	*Value*	*Quantity*	*Value*	*Quantity*	*Value*
By manufacturing establishments—Continued.								
Crab, king, scrap and meal ... tons			300	$12,124			(1)	(1)
Clams:								
Hard, fresh-shucked ... gallons			(1)	(1)	4,510	$10,557		
Soft, fresh-shucked ... gallons			5,820	5,820				
Clam chowder, canned ... standard cases	(1)	(1)	177,071	636,607				
Marine-shell products:								
Buttons ... gross	1,138,334	$813,556	1,646,622	1,254,165	(1)	(1)		
Novelties		113,500		91,922				
Oysters, fresh-shucked ... gallons	387,481	765,213	382,471	675,659	60,080	116,785	(1)	(1)
Oyster-shell products:								
Poultry feed ... tons	(1)	(1)	4,441	35,174	4,294	38,969	(1)	(1)
Lime ... do	(1)	(1)	1,763	8,359	1,109	4,533	(1)	(1)
Unclassified products:								
Smoked ... pounds	(2)	(2)	[3] 130,370	[3] 26,607	[4] 2,031,900	[4] 528,651		
Canned ... standard cases	[5] 17,815	[5] 216,553	(2)	(2)				
Miscellaneous		[6] 826,079		[7] 771,516		[8] 172,996		[9] $585,648
Total		12,885,773		4,314,693		872,491		585,648
By fishermen:								
Bluefish, smoked ... pounds			2,500	500				
Butterfish, smoked ... do			3,000	600				
Cod, smoked ... do			1,500	300				
Eels, smoked ... do	38,400	9,724	10,000	3,300				
Mackerel, smoked ... do			2,000	400				
Whiting, smoked ... do			9,500	1,675				
Scallops:								
Bay, fresh-shucked ... gallons	3,958	6,041						
Sea, fresh-shucked ... gallons	148,018	159,944	26,000	22,500				
Crab, king, scrap and meal ... tons			127	3,432				
Sturgeon, roe, salted ... pounds			150	225				
Total		175,709		32,932				
Grand total		13,061,482		4,347,625		872,491		585,648

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[1] The production of this item is included under "Unclassified products."

[2] This item has been included under "Miscellaneous."

[3] Includes smoked eels, haddock, finnan haddie, hake, lake trout, mackerel, scup, shad, and whiting.

[4] Includes smoked butterfish, chubs, cisco, haddock and haddock fillets, sea herring (kippers and bloaters), lake trout, mackerel, shad, salmon, sturgeon, tullibees, and whitefish, and kippered salmon.

[5] Includes canned pickled eels, pickled sea mussels, fish paste, clam products, and turtle and terrapin products.

[6] Includes fresh fillets of halibut and mackerel, smoked eels, halibut, swordfish, and tuna-liver oils, menhaden products, oyster- and mussel-shell products, and miscellaneous fish meals.

[7] Includes fresh-shucked hard clams, canned clam products and fish chowder, cod, swordfish, and tuna-liver oils, salted boned cod, pickled eels, and herring roe; and menhaden and shark products.

[8] Includes miscellaneous fish scrap and marine-shell buttons.

[9] Includes salted sturgeon roe, fresh-shucked oysters, oyster-shell products, king-crab scrap, and menhaden products.

NOTE.—The total value of the manufactured products for the Middle Atlantic States was as follows: By manufacturing establishments, $18,658,605; and by fishermen, $208,641. Some of the above products may have been manufactured from fishery products imported from another State or a foreign country; therefore they cannot be correlated directly with the catch within the State. Of the total number of persons engaged on transporting craft, 122 have been included as fishermen, and among the total number of persons engaged in the preparation of fishermen's prepared products, 285 have been included as fishermen. The whale products shown above were manufactured on floating factory ships operating in the Southern Hemisphere. For additional data on the whale fishery, the reader is referred to the section in the latter part of this document entitled "Whaling."

NEW YORK

Fisheries of New York, 1937

OPERATING UNITS: BY GEAR

Item	Purse seines			Haul seines	Gill nets			
	Mackerel	Menhaden	Other		Anchor	Drift	Run-around	Stake
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	32	207	12	7	4	4	14	2
On boats and shore:								
Regular				59		68		117
Casual				140		302		91
Total	32	207	12	206	4	274	14	210
Vessels:								
Steam, 41 to 50 tons		1						
Net tonnage		45						
Motor:								
5 to 10 tons	1			1	1	1	2	
11 to 20 tons		3		1			1	1
21 to 30 tons	1		1					
31 to 40 tons		1						
41 to 50 tons	1							
101 to 110 tons		2						
111 to 120 tons		1						
161 to 170 tons		1						
Total	3	8	1	2	1	1	3	1
Net tonnage	72	567	29	22	10	10	37	11
Total vessels	3	9	1	2	1	1	3	1
Total net tonnage	72	612	29	22	10	10	37	11
Boats:								
Motor				7		2		30
Other				67		198		87
Accessory boats	7	27	2	2	2	2	7	2
Apparatus:								
Number	3	9	1	71	11	189	4	354
Length, yards	1,330	3,530	400	13,625				
Square yards					666	596,986	9,840	88,936

Item	Lines				Pound nets	Fyke nets	Dip nets	Otter trawls	
	Hand	Trawl	Trot with baits or snoods	Trot with hooks				Fish	Shrimp
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	64	185			52	6		227	2
On boats and shore:									
Regular	62	94	76	6	15	35		114	
Casual			50	21	2	116	36		
Total	126	279	126	27	69	157	36	341	2
Vessels, motor:									
5 to 10 tons	11	9			7	1		43	1
11 to 20 tons	7	4			4	1		35	
21 to 30 tons	1	1			2			8	
31 to 40 tons								5	
41 to 50 tons		3							
51 to 60 tons		3						2	
61 to 70 tons		2							
Total	19	22			13	2		93	1
Net tonnage	209	571			152	22		1,296	6
Boats:									
Motor	29	45	24		3	2		57	
Other	6		12	16	10	82	18		
Accessory boats		53			16				
Apparatus:									
Number	105	3,894	72	14	136	573	36	152	1
Yards at mouth								3,108	23
Hooks, baits, or snoods	105	248,660	44,000	2,385					

Fisheries of New York, 1937—Continued

OPERATING UNITS: BY GEAR—Continued

Item	Eel traps	Pots			Harpoons	Spears	Dredges		
		Eel	Fish	Lobster			Clam	Crab	Mussel
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	4	5		6	35		14	5	3
On boats and shore:									
Regular	20	46	21	86		22	26	2	
Casual		62		44		34			
Total	24	113	21	136	35	56	40	7	3
Vessels, motor:									
5 to 10 tons	2	1		4	4		4	1	
11 to 20 tons		1			4		3	1	1
21 to 30 tons					2				
41 to 50 tons					2				
51 to 60 tons					1				
Total	2	2		4	13		7	2	1
Net tonnage	19	22		29	291		73	23	13
Boats:									
Motor			21	81		12	13	1	
Other	9	64		33		22			
Accessory boats					13				
Apparatus:									
Number	60	1,488	1,110	13,850	13	56	42	7	2
Yards at mouth							42	12	2

Item	Dredges—Continued			Tongs		Rakes, other than for oysters	Forks	Total, exclusive of duplication
	Oyster		Scallop	Oyster	Other			
	Common	Suction						
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	198	4	207	36	100			1,158
On boats and shore:								
Regular	12			213	758	110	128	1,104
Casual				64	430	67	274	1,027
Total	210	4	207	313	1,288	177	402	3,289
Vessels:								
Steam, 41 to 50 tons								1
Net tonnage								45
Motor:								
5 to 10 tons	12		8	17	47			116
11 to 20 tons	23	1	17	1	2			79
21 to 30 tons	9		7					24
31 to 40 tons	3		3					10
41 to 50 tons	1							4
51 to 60 tons			1					5
61 to 70 tons								2
101 to 110 tons								2
111 to 120 tons								1
161 to 170 tons								1
Total	48	1	36	18	49			244
Net tonnage	805	20	653	120	326			3,989
Total vessels	48	1	36	18	49			245
Total net tonnage	805	20	653	120	326			4,034
Boats:								
Motor	4							511
Other				101	345	25	76	808
Accessory boats				76	422	152	131	125
Apparatus:								
Number	104	1	72	313	1,287	177	402	
Yards at mouth	145	2	244					

Fisheries of New York, 1937—Continued

CATCH: BY GEAR

Species	Purse seines						Haul seines	
	Mackerel		Menhaden		Other			
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives							135,600	$2,347
Bluefish							2,000	148
Butterfish							300	25
Carp							83,000	5,603
Catfish and bullheads							4,000	347
Croaker					1,900	$19		
Flounders, blackback							100	6
King whiting or "kingfish"							17,900	204
Mackerel	153,100	$6,704						
Menhaden			31,500,000	$163,121				
Mummichog							1,300	140
Scup or porgy					110,000	2,200	39,800	2,694
Sea bass					1,200	96	200	15
Shad							19,700	1,433
Smelt							600	76
Spot							200	3
Squeteagues or "sea trout," gray					300,000	9,000	316,900	16,095
Striped bass							82,500	7,064
Suckers							3,800	254
Tautog					1,200	12	100	2
Thimble-eyed mackerel					1,900	57		
Tomcod							100	10
Yellow perch							4,400	236
Shrimp							20,600	5,150
Total	153,100	6,704	31,500,000	163,121	416,200	11,384	733,100	41,852

Species	Gill nets							
	Anchor		Drift		Runaround		Stake	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives			9,900	$289			1,000	$22
Bluefish	3,000	$300	23,300	2,479	5,600	$448	14,200	1,240
Butterfish							8,400	840
Carp			1,400	85			41,600	3,071
Catfish and bullheads			300	16			400	20
King whiting or "kingfish"							800	19
Mackerel			6,100	122	96,000	2,880		
Shad			932,600	70,009			30,400	2,556
Squeteagues or "sea trout," gray	5,700	342	6,000	240	4,000	320	18,000	850
Striped bass	2,500	375	6,700	813			15,400	1,545
Sturgeon			200	44			900	219
Suckers							900	60
Yellow perch			5,700	358			9,900	596
Total	11,200	1,017	992,200	74,455	105,600	3,648	141,900	11,038

Fisheries of New York, 1937—Continued

CATCH: BY GEAR—Continued

Species	Lines							
	Hand		Trawl		Trot with baits or snoods		Trot with hooks	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Bluefish	433, 700	$35, 682	119, 900	$9, 113				
Catfish and bullheads							1, 800	$185
Cod	270, 800	12, 085	1, 837, 000	66, 219				
Cusk			90, 900	1, 283				
Eels, common							1, 700	116
Flounders:								
Blackback	80, 000	2, 400	18, 000	720				
Yellowtail and dab	4, 000	80						
Fluke			4, 000	440				
Unclassified			15, 000	756				
Haddock	9, 000	270	122, 400	3, 408				
Hake			278, 300	2, 922				
Halibut			2, 000	223				
Mackerel	105, 300	2, 283	16, 000	387				
Pollock	83, 600	2, 273	16, 200	312				
Scup or porgy	7, 700	221	3, 200	84				
Sea bass	92, 000	7, 361	1, 300	99				
Squeteagues or "sea trout," gray	25, 700	1, 284	300	13				
Striped bass	1, 900	176						
Swordfish			200	42				
Tilefish	42, 600	2, 192	2, 312, 000	97, 922				
Wolffish			5, 800	139				
Crabs, hard	2, 600	175			478, 200	$10, 321		
Total	1, 158, 900	66, 482	4, 842, 500	184, 082	478, 200	10, 321	3, 500	301

Species	Pound nets		Fyke nets		Dip nets	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	10, 300	$88	61, 100	$1, 093		
Bluefish	216, 300	15, 691				
Bonito	50, 400	2, 061				
Butterfish	1, 498, 100	91, 771				
Carp			9, 700	707		
Catfish and bullheads			17, 600	1. 911		
Cod	18, 900	885				
Eels:						
Common	14, 100	723	1, 200	95		
Conger	200	8				
Flounders:						
Blackback	2, 600	133	35, 200	2, 037		
Fluke	79, 800	4, 668				
Frigate mackerel	26, 500	265				
Grayfish	100	2				
Herring, sea	4, 600	46				
King whiting or "kingfish"	16, 100	258				
Mackerel	1, 055, 600	22, 205				
Menhaden	392, 000	1, 310				
Pollock	700	22				
Scup or porgy	567, 900	16, 986				
Sea bass	53, 600	4, 341				
Sea robin	8, 500	174				
Shad	38, 700	2, 865				
Sharks	17, 100	1, 083				
Skates	38, 400	210				
Spanish mackerel	100	2				
Spot	100	2				
Squeteagues or "sea trout," gray	625, 200	24, 671	20, 000	987		
Squirrel hake	100	2				
Striped bass	21, 500	1, 606	100	12		
Sturgeon	100	12				
Suckers			25, 200	1, 672		
Sunfish			1, 600	93		
Swellfish	56, 100	579				
Tautog	4, 000	48	600	18		
Thimble-eyed mackerel	46, 000	1, 420				
Tomcod			3, 000	110		
Tuna	43, 400	2, 218				
Whiting	304, 900	5, 294				
Yellow perch			9, 500	861		
Crabs:						
Hard					4, 400	$165
Soft and peelers					12, 500	2, 500
Squid	608, 200	23, 999				
Total	5, 820, 200	225. 648	184, 800	9. 596	16, 900	2, 665

Fisheries of New York, 1937—Continued

CATCH: BY GEAR—Continued

Species	Otter trawls				Eel traps		Eel pots	
	Fish		Shrimp					
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	3, 900	$50						
Bluefish	40, 100	3, 291						
Butterfish	393, 400	19, 829						
Cod	1, 675, 800	74, 629						
Croaker	28, 000	296						
Drum, red or redfish	100	1						
Eels:								
Common					13, 400	$730	111, 700	$6, 866
Conger	800	14						
Flounders:								
Gray sole	89, 100	6, 261						
Lemon sole	145, 800	9, 610						
Yellowtail and dab	2, 813, 000	126, 499						
Blackback	2, 600, 900	140, 580						
Fluke	2, 014, 500	99, 005						
Unclassified	663, 800	33, 182	300	$15				
Haddock	2, 150, 500	72, 079						
Hake	38, 900	1, 185						
Halibut	800	68						
King whiting or "kingfish"	34, 500	362	3, 300	50				
Mackerel	15, 800	497						
Pollock	15, 600	411						
Rosefish	1, 500	15						
Scup or porgy	978, 500	28, 264						
Sea bass	192, 200	15, 430						
Sea robin	7, 500	151						
Sharks	5, 100	54						
Skates	24, 900	132						
Squeteagues or "sea trout," gray	135, 300	4, 909						
Squirrel hake	4, 900	96						
Striped bass	1, 400	111						
Swordfish	1, 600	317						
Tilefish	35, 000	1, 750						
Whiting	4, 884, 300	81, 823						
Lobsters	1, 300	217						
Shrimp			58, 200	1, 846				
Conchs	12, 600	1, 236						
Squid	599, 000	20, 472						
Total	19, 610, 400	743, 126	61, 800	1, 911	13, 400	730	111, 700	6, 866

Species	Pots—Continued				Harpoons		Spears	
	Fish		Lobster					
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Eels, common							30, 300	$1, 545
Sea bass	186, 900	$11, 215						
Swordfish					107, 200	$19, 857		
Lobsters	18, 000	3, 600	347, 500	$71, 876				
Total	204, 900	14, 815	347, 500	71, 876	107, 200	19, 857	30, 300	1, 545

Species	Dredges							
	Clam		Crab		Mussel		Oyster	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Crabs, hard			25, 900	$689				
Clams:								
Hard, public	17, 600	$2, 000						
Surf	971, 800	60, 114						
Mussels, sea					8, 700	$348		
Oysters, market:								
Public, spring							16, 200	$2, 722
Public, fall							13, 600	2, 203
Private, spring							4, 227, 700	748, 303
Private, fall							4, 856, 900	845, 101
Total	989, 400	62, 114	25, 900	689	8, 700	348	9, 114, 400	1, 598, 329

Fisheries of New York, 1937—Continued

CATCH: BY GEAR—Continued

Species	Dredges—Con.		Tongs		Rakes		Forks	
	Scallop							
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Clams:								
Hard, public			2, 130, 300	$372, 543				
Hard, private			383, 500	67, 914				
Soft, public			4, 900	437	765, 100	$85, 008		
Soft, private					12, 800	1, 536		
Mussels, sea			82, 000	4, 914				
Oysters, market:								
Public, spring			483, 500	81, 228				
Public, fall			186, 600	30, 229				
Scallops:								
Bay	4, 200	$1, 022	31, 800	7, 628				
Sea	2, 818, 700	329, 255						
Bloodworms							34, 700	$27, 040
Sandworms							38, 500	27, 772
Total	2, 822, 900	330, 277	3, 302, 600	564, 893	777, 900	86, 544	73, 200	54, 812

OPERATING UNITS: BY COUNTIES

Item	Albany	Columbia	Dutchess	Greene	Kings	Nassau	New York	Orange
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels					185	67	322	
On boats and shore:								
Regular			8	2	113	172		2
Casual	2	31	88	34	32	45		44
Total	2	31	96	36	330	284	322	46
Vessels, motor:								
5 to 10 tons					24	6	7	
11 to 20 tons					17	8	16	
21 to 30 tons					5	2	7	
31 to 40 tons					1	1	5	
41 to 50 tons							3	
51 to 60 tons					1		4	
61 to 70 tons							2	
Total					48	17	44	
Net tonnage					632	267	1, 140	
Boats:								
Motor					55	52		
Other	2	16	44	16	33	124		19
Accessory boats					9		61	
Apparatus:								
Purse seines:								
Mackerel							3	
Length, yards							1, 330	
Other					1			
Length, yards					400			
Haul seines		3	7	5	2			6
Length, yards		197	775	1, 133	23			655
Gill nets:								
Drift		6	26	4				8
Square yards		17, 222	92, 639	13, 333				34, 167
Runaround					1			
Square yards					8, 000			
Stake		2	6	7	2	16		
Square yards		105	1, 280	987	644	1, 878		
Lines:								
Hand					54	6	14	
Hooks					54	6	14	
Trawl					520	180	2, 904	
Hooks					35, 800	10, 000	150, 860	
Trot with hooks			3					4
Hooks			750					675
Pound nets						5		
Fyke nets	4	72	64	17				5
Otter trawls:								
Fish					48	13	31	
Yards at mouth					959	190	861	
Shrimp							1	
Yards at mouth							23	

Fisheries of New York, 1937—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Albany	Columbia	Dutchess	Greene	Kings	Nassau	New York	Orange
Apparatus—Continued								
Pots:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Eel	--------	4	22	--------	275	--------	--------	5
Fish	--------	--------	--------	--------	--------	1, 110	--------	--------
Lobster	--------	--------	--------	--------	5, 114	--------	--------	--------
Harpoons	--------	--------	--------	--------	1	--------	7	--------
Spears	--------	--------	--------	--------	4	--------	--------	--------
Dredges:								
Clam	--------	--------	--------	--------	32	10	--------	--------
Yards at mouth	--------	--------	--------	--------	32	10	--------	--------
Crab	--------	--------	--------	--------	7	--------	--------	--------
Yards at mouth	--------	--------	--------	--------	12	--------	--------	--------
Mussel	--------	--------	--------	--------	--------	2	--------	--------
Yards at mouth	--------	--------	--------	--------	--------	2	--------	--------
Oyster:								
Common	--------	--------	--------	--------	--------	26	2	--------
Yards at mouth	--------	--------	--------	--------	--------	38	3	--------
Suction	--------	--------	--------	--------	--------	1	--------	--------
Yards at mouth	--------	--------	--------	--------	--------	2	--------	--------
Scallop	--------	--------	--------	--------	20	4	44	--------
Yards at mouth	--------	--------	--------	--------	67	13	150	--------
Tongs:								
Oyster	--------	--------	--------	--------	--------	19	--------	--------
Other	--------	--------	--------	--------	--------	133	--------	--------
Rakes, other than for oysters	--------	--------	--------	--------	--------	70	--------	--------
Forks	--------	--------	--------	--------	22	28	--------	--------

Item	Putnam	Queens	Rensselaer	Richmond	Rockland	Suffolk	Ulster	Westchester
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	--------	2	--------	9	--------	570	--------	3
On boats and shore:								
Regular	2	--------	--------	--------	15	756	17	17
Casual	7	--------	9	--------	101	423	116	95
Total	9	2	9	9	116	1, 749	133	115
Vessels:								
Steam, 41 to 50 tons	--------	--------	--------	--------	--------	1	--------	--------
Net tonnage	--------	--------	--------	--------	--------	45	--------	--------
Motor:								
5 to 10 tons	--------	--------	--------	1	--------	77	--------	1
11 to 20 tons	--------	1	--------	1	--------	36	--------	--------
21 to 30 tons	--------	--------	--------	--------	--------	10	--------	--------
31 to 40 tons	--------	--------	--------	--------	--------	3	--------	--------
41 to 50 tons	--------	--------	--------	--------	--------	1	--------	--------
101 to 110 tons	--------	--------	--------	--------	--------	2	--------	--------
111 to 120 tons	--------	--------	--------	--------	--------	1	--------	--------
161 to 170 tons	--------	--------	--------	--------	--------	1	--------	--------
Total	--------	1	--------	2	--------	131	--------	1
Net tonnage	--------	13	--------	26	--------	1, 903	--------	8
Total vessels	--------	1	--------	2	--------	132	--------	1
Total net tonnage	--------	13	--------	26	--------	1, 948	--------	
Boats:								
Motor	--------	--------	--------	--------	--------	404	--------	--------
Other	4	--------	4	--------	72	338	73	63
Accessory boats	--------	--------	--------	1	--------	53	--------	1
Apparatus:								
Purse seines:								
Menhaden	--------	--------	--------	--------	--------	9	--------	--------
Length, yards	--------	--------	--------	--------	--------	3, 530	--------	--------
Haul seines	1	--------	3	--------	7	29	4	4
Length, yards	233	--------	263	--------	1, 167	8, 012	500	667
Gill nets:								
Anchor	--------	--------	--------	--------	--------	11	--------	--------
Square yards	--------	--------	--------	--------	--------	666	--------	--------
Drift	2	--------	--------	--------	32	4	61	46
Square yards	1, 111	--------	--------	--------	98, 750	1, 487	179, 944	158, 333
Runaround	--------	--------	--------	--------	--------	3	--------	--------
Square yards	--------	--------	--------	--------	--------	1, 840	--------	--------
Stake	--------	--------	--------	--------	26	280	5	10
Square yards	--------	--------	--------	--------	7, 542	72, 000	3, 133	1, 367

Fisheries of New York, 1937—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Putnam	Queens	Rensselaer	Richmond	Rockland	Suffolk	Ulster	Westchester
Apparatus—Continued.	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Lines:								
Hand				3		28		
Hooks				3		28		
Trawl						290		
Hooks						52,000		
Trot with baits or snoods						72		
Baits or snoods						44,000		
Trot with hooks					5		2	
Hooks					710		250	
Pound nets						131		
Fyke nets	5		8		14	272	79	33
Dip nets						36		
Otter trawls, fish		1				59		
Yards at mouth		23				1,075		
Eel traps						60		
Pots:								
Eel	5				401	705	14	57
Lobster						8,736		
Harpoons				1		3		1
Spears						52		
Dredges:								
Oyster						76		
Yards at mouth						104		
Scallop				2		2		
Yards at mouth				7		7		
Tongs:								
Oyster						294		
Other						1,154		
Rakes, other than for oysters						107		
Forks						352		

CATCH: BY COUNTIES

Species	Albany		Columbia		Dutchess		Greene	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	4,000	$98	42,300	$721	69,500	$1,299	8,800	$199
Carp	1,500	91	4,700	315	24,000	1,736	18,700	1,481
Catfish and bullheads	300	20	1,000	98	6,300	818	2,000	212
Eels, common			400	19	600	53	100	6
Shad			21,800	1,466	171,600	12,136	23,600	1,889
Striped bass					1,200	50		
Sturgeon					900	221	100	18
Suckers	500	31	3,400	186	3,400	235	300	18
Sunfish			200	16	400	30		
White perch	100	6	1,500	245	2,700	225	1,200	84
Total	6,400	246	75,300	3,066	280,600	16,803	54,800	3,907

Species	Kings		Nassau		New York		Orange	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives							23,100	$315
Bluefish	328,900	$26,654	47,400	$3,130	192,800	$15,627		
Bonito			11,200	520				
Butterfish	40,300	1,639	135,900	9,026	262,100	12,387		
Carp							8,000	549
Catfish and bullheads							1,600	165
Cod	587,400	25,450	310,000	13,375	2,319,500	91,135		
Croaker	1,900	19						
Cusk					90,900	1,283		
Eels:								
Common	9,100	976					700	41
Conger					800	14		
Flounders:								
Gray sole					88,900	6,256		
Lemon sole					145,800	9,610		
Yellowtail and dab	232,600	8,510	34,000	1,700	1,206,900	46,210		
Blackback	826,700	49,608	1,800	87	831,500	42,279		
Fluke	935,300	42,795	232,400	11,643	446,500	22,242		
Unclassified	150,000	7,500			501,300	25,040		

Fisheries of New York, 1937—Continued

CATCH: BY COUNTIES—Continued

Species	Kings		Nassau		New York		Orange	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Frigate mackerel			13,200	$132				
Haddock	1,500	$56			2,242,400	$74,283		
Hake	24,400	898			292,400	3,201		
Halibut					2,800	291		
King whiting or "kingfish"			2,900	92	3,300	50		
Mackerel	176,000	4,547	127,800	2,557	189,400	7,641		
Mummichog	1,300	140						
Pollock					21,800	419		
Rosefish					1,500	15		
Scup or porgy	155,500	3,475	88,600	3,481	80,600	2,425		
Sea bass	12,700	1,019	187,600	11,273	83,400	6,663		
Sea robin	7,000	140	500	11				
Shad	6,700	807	3,600	360			26,700	$1,674
Sharks	200	5						
Skates	24,800	430						
Smelt							200	38
Spanish mackerel			100	2				
Squeteagues or "sea trout," gray	300,000	9,000	124,000	4,960	1,600	64		
Squirrel hake	3,000	60	1,900	36				
Striped bass			14,500	1,148				
Suckers							1,000	64
Sunfish							200	11
Swordfish	200	22			75,700	13,927		
Tautog	1,200	12						
Thimble-eyed mackerel	1,900	57	46,000	1,420				
Tilefish	240,000	9,540			2,115,600	90,567		
Tomcod							100	10
White perch							700	60
Whiting	4,073,400	67,099	464,700	6,534	39,900	699		
Wolffish					5,800	139		
Crabs, hard	28,500	864						
Lobsters	196,000	39,200	18,000	3,600	500	57		
Shrimp					58,200	1,846		
Clams:								
Hard, public	17,600	2,000	351,600	66,335				
Hard, private			24,000	4,500				
Soft, public			253,200	21,578				
Surf	770,000	50,012	201,800	10,102				
Conchs	12,600	1,236						
Mussels, sea			25,900	1,374				
Oysters, market:								
Public, spring			5,900	991				
Public, fall			8,800	1,425				
Private, spring			1,176,800	208,294	5,300	938		
Private, fall			1,389,800	241,825	44,200	7,691		
Scallops:								
Bay			100	46				
Sea	722,400	94,029	107,300	13,600	1,904,200	211,507		
Squid	90,000	3,243	99,100	3,017	3,600	102		
Bloodworms	3,200	920	9,200	6,900				
Sandworms	4,700	432	14,200	10,600				
Total	9,987,000	452,394	5,533,800	665,674	13,259,200	694,608	62,300	2,927

Species	Putnam		Queens		Rensselaer		Richmond	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	400	$8			4,000	$43		
Bluefish							33,000	$2,680
Carp	2,500	124			29,300	1,919		
Catfish and bullheads	600	53			700	78		
Cod			200	$4			24,400	1,252
Eels, common	800	48			100	11		
Flounders:								
Gray sole			200	5				
Yellowtail and dab			35,500	597				
Blackback			2,000	80				
Shad	5,000	500			100	5		
Striped bass	200	26			100	7		
Suckers	500	21			13,800	910		
Sunfish	100	3						
Swordfish							1,800	324
White perch	900	65			600	46		
Scallops, sea							84,800	10,119
Total	11,000	848	37,900	686	48,700	3,019	144,000	14,375

Fisheries of New York, 1937—Continued

CATCH: BY COUNTIES—Continued

Species	Rockland		Suffolk		Ulster		Westchester	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	9,900	$291	14,400	$140	43,600	$745	1,800	$30
Bluefish			256,000	20,301				
Bonito			39,200	1,541				
Butterfish			1,461,900	89,413				
Carp	1,900	76			35,300	2,526	9.800	649
Catfish and bullheads	700	72			5,900	591	5,000	372
Cod			561,000	22,602				
Croaker			28,000	296				
Drum, red or redfish			100	1				
Eels:								
Common	29,400	1,530	122,200	6,725	2,000	235	7,000	431
Conger			200	8				
Flounders:								
Yellowtail and dab			1.308,000	69,562				
Blackback			1,074,800	53,822				
Fluke			484,100	27,433				
Unclassified			27,800	1,413				
Frigate mackerel			13,300	133				
Grayfish			100	2				
Haddock			38,000	1,418				
Hake			400	8				
Herring, sea			4,600	46				
King whiting or "kingfish"			66,400	751				
Mackerel			954,700	20,333				
Menhaden			31,892,000	164,431				
Pollock			94,300	2,599				
Scup or porgy			1,382,400	41,068				
Sea bass			243,700	19,602				
Sea robin			8,500	174				
Shad	152,600	11,035	35,100	2,505	343,000	23,980	231,600	20,506
Sharks			22,000	1,132				
Skates			38,500	212				
Smelt					400	38		
Spot			300	5				
Squeteagues or "sea trout," gray			1,031,500	44,687				
Squirrel hake			100	2				
Striped bass	15,500	2,293	96,900	7,870	100	8	3,500	300
Sturgeon			100	12			100	24
Suckers	1,600	125			2,800	185	2,600	211
Sunfish					700	33		
Swellfish			56,100	579				
Swordfish			23,400	4,693			7,900	1,250
Tautog			4,700	68				
Tilefish			34,000	1,757				
Tomcod							3,000	110
Tuna			43,400	2,218				
White perch	9,000	593			2,300	201	10,500	526
Whiting			611,200	12,785				
Crabs:								
Hard			482,600	10,486				
Soft and peelers			12,500	2,500				
Lobsters			152,300	32,836				
Shrimp			20,600	5,150				
Clams:								
Hard, public			1,778,700	306.208				
Hard, private			359,500	63,414				
Soft, public			516,800	63,867				
Soft, private			12,800	1,536				
Mussels, sea			64,800	3,888				
Oysters, market:								
Public, spring			493,800	82,959				
Public, fall			191,400	31,007				
Private, spring			3,045,600	539,071				
Private, fall			3,422,900	595,585				
Scallops, bay			35,900	8,604				
Squid			1,014,500	38,109				
Bloodworms			22,300	19,220				
Sandworms			19,600	16,740				
Total	220,600	16,015	53,720,000	2,443,527	436,100	28,542	282,800	24,409

Fisheries of New York, 1937—Continued

SEED OYSTER FISHERY: BY GEAR

Item	Dredges		Tongs		Total, exclusive of duplication	
OPERATING UNITS	*Number*		*Number*		*Number*	
Fishermen:						
On vessels	28				28	
On boats and shore:						
Regular			109		109	
Casual			39		39	
Total	28		148		176	
Vessels, motor	5				5	
Net tonnage	149				149	
Boats:						
Motor			20		20	
Other			128		128	
Apparatus:						
Number	10		148			
Yards at mouth	19					
CATCH	*Bushels*	*Value*	*Bushels*	*Value*	*Bushels*	*Value*
Oysters, seed:						
Public, spring			39, 829	$34, 995	39, 829	$34, 995
Private, spring	12, 783	$13, 760			12, 783	13, 760
Public, fall			5, 766	4, 996	5, 766	4, 996
Private, fall	32, 161	33, 290			32, 161	33, 290
Total	44, 944	47, 050	45, 595	39, 991	90, 539	87, 041

SEED OYSTER FISHERY: BY COUNTIES

Item	Nassau		Suffolk	
OPERATING UNITS	*Number*		*Number*	
Fishermen:				
On vessels			28	
On boats and shore:				
Regular	6		103	
Casual	6		33	
Total	12		164	
Vessels, motor			5	
Net tonnage			149	
Boats:				
Motor	2		18	
Other	10		118	
Apparatus:				
Dredges			10	
Yards at mouth			19	
Tongs			148	
CATCH	*Bushels*	*Value*	*Bushels*	*Value*
Oyster, seed:				
Public, spring	1, 585	$1, 280	38, 244	$33, 715
Private, spring			12, 783	13, 760
Public, fall	386	221	5, 380	4, 775
Private, fall			32, 161	33, 290
Total	1, 971	1, 501	88, 568	85, 540

NOTE.—Of the total number of persons fishing for seed oysters, 156 are duplicated among those fishing for market oysters or other species. Similarly the following craft and gear are duplicated: 1 motor vessel, 20 motorboats, 128 other boats, 2 dredges, and 148 tongs.

NEW JERSEY

Fisheries of New Jersey, 1937

OPERATING UNITS: BY GEAR

Item	Purse seines		Haul seines	Gill nets				Lines	
	Menhaden	Other		Anchor	Drift	Run-around	Stake	Hand	Trawl
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	126	94	--------	--------	8	--------	--------	58	54
On boats and shore:									
Regular	--------	--------	73	4	104	109	51	204	142
Casual	--------	--------	218	2	82	11	252	64	53
Total	126	94	291	6	194	120	303	326	249
Vessels, motor:									
5 to 10 tons	--------	1	--------	--------	1	--------	--------	5	7
11 to 20 tons	--------	2	--------	--------	1	--------	--------	5	12
21 to 30 tons	--------	3	--------	--------	--------	--------	--------	1	--------
31 to 40 tons	5	1	--------	--------	--------	--------	--------	1	--------
41 to 50 tons	--------	1	--------	--------	--------	--------	--------	--------	--------
141 to 150 tons	1	--------	--------	--------	--------	--------	--------	--------	--------
Total	6	8	--------	--------	2	--------	--------	12	19
Net tonnage	332	192	--------	--------	17	--------	--------	155	197
Boats:									
Motor	--------	--------	3	3	64	52	44	138	90
Other	--------	--------	119	--------	42	--------	95	8	--------
Accessory boats	18	11	--------	--------	3	--------	--------	21	22
Apparatus:									
Number	6	8	121	6	678	52	579	444	566
Length, yards	1,680	2,790	9,573	--------	--------	--------	--------	--------	--------
Square yards	--------	--------	--------	9,340	470,822	189,590	219,175	--------	--------
Hooks, baits, or snoods	--------	--------	--------	--------	--------	--------	--------	885	373,000

Item	Lines—Continued			Pound nets	Weirs	Stop nets	Fyke nets	Dip nets	Cast nets
	Troll	Trot with baits or snoods	Trot with hooks						
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	22	--------	--------	242	--------	--------	--------	--------	--------
On boats and shore:									
Regular	71	16	--------	112	--------	23	34	15	--------
Casual	57	12	1	24	15	67	68	13	3
Total	150	28	1	378	15	90	102	28	3
Vessels, motor:									
5 to 10 tons	2	--------	--------	36	--------	--------	--------	--------	--------
11 to 20 tons	1	--------	--------	--------	--------	--------	--------	--------	--------
21 to 30 tons	1	--------	--------	--------	--------	--------	--------	--------	--------
Total	4	--------	--------	36	--------	--------	--------	--------	--------
Net tonnage	53	--------	--------	224	--------	--------	--------	--------	--------
Boats:									
Motor	113	16	--------	23	6	9	24	4	--------
Other	--------	5	1	13	1	44	37	22	--------
Accessory boats	8	--------	--------	--------	--------	--------	--------	--------	--------
Apparatus:									
Number	482	21	1	191	91	59	832	28	3
Square, yards	--------	--------	--------	--------	--------	63,317	--------	--------	--------
Hooks, baits or snoods	482	14,806	150	--------	--------	--------	--------	--------	--------

Fisheries of New Jersey, 1937—Continued

OPERATING UNITS: BY GEAR—Continued

Item	Drag nets	Drop nets	Push nets	Otter trawls	Wire baskets	Pots	
						Crab	Eel
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels				140			
On boats and shore:							
Regular	6	1	11	44		2	23
Casual	3		2	6	1		29
Total	9	1	13	190	1	2	52
Vessels, motor:							
5 to 10 tons				6			
11 to 20 tons				19			
21 to 30 tons				2			
31 to 40 tons				5			
41 to 50 tons				2			
51 to 60 tons				1			
71 to 80 tons				1			
Total				36			
Net tonnage				746			
Boats:							
Motor	6		10	24	1	1	21
Other		1	2				16
Apparatus:							
Number	12	40	13	60	25	10	1,476
Yards at mouth	24			1,367			

Item	Pots—Contd.		Spears	Dredges			
	Fish	Lobster		Clam	Crab	Oyster	Scallop
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels				78	21	427	24
On boats and shore:							
Regular	53	87	35	11	6	28	
Casual	13	7	5	6		2	
Total	66	94	40	95	27	457	24
Vessels:							
Motor:							
5 to 10 tons				10	5	10	
11 to 20 tons				13	3	38	
21 to 30 tons						15	1
31 to 40 tons						4	2
51 to 60 tons						5	
Total				23	8	72	3
Net tonnage				269	85	1,418	92
Sail:							
5 to 10 tons				2	1		
11 to 20 tons				1		1	
Total				3	1	1	
Net tonnage				32	8	18	
Total vessels				26	9	73	3
Total net tonnage				301	93	1,436	92
Boats:							
Motor	42	47		10	4	15	
Other			40				
Apparatus:							
Number	10,047	9,699	40	72	58	176	6
Yards at mouth				74	84	214	20

Fisheries of New Jersey, 1937—Continued

OPERATING UNITS: BY GEAR—Continued

Item	Tongs		Rakes		Hoes	By hand		Total, exclusive of duplication
	Oyster	Other	Oyster	Other		Oyster	Other	
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels								1, 132
On boats and shore:								
Regular	66	337	34	410	60	2	126	992
Casual	121	235		461	41	14	248	1, 581
Total	187	572	34	871	101	16	374	3, 705
Vessels:								
Motor:								
5 to 10 tons								68
11 to 20 tons								73
21 to 30 tons								21
31 to 40 tons								15
41 to 50 tons								2
51 to 60 tons								6
71 to 80 tons								1
141 to 150 tons								1
Total								187
Net tonnage								3, 197
Sail:								
5 to 10 tons								2
11 to 20 tons								1
Total								3
Net tonnage								32
Total vessels								189
Total net tonnage								3, 229
Boats:								
Motor	63	296	22	310	20		69	971
Other	117	255	9	546	75	3	254	1, 317
Accessory boats								71
Apparatus, number	187	572	34	871	101			

CATCH: BY GEAR

Species	Purse seines				Haul seines		Gill nets	
	Menhaden		Other				Anchor	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives					68, 400	$719		
Bluefish			74, 800	$4, 738			700	$60
Bonito			3, 100	132				
Butterfish			31, 200	1, 262				
Carp					126, 700	8, 361		
Catfish and bullheads					21, 100	877		
Cod			69, 400	2, 500				
Croaker			522, 300	7, 207	9, 700	227		
Eels, common					58, 200	3, 841		
Flounders:								
Blackback					300	30		
Fluke			2, 900	280	5, 400	623		
Frigate mackerel			300	3				
Herring, sea			2, 000	27				
Hickory shad			600	12				
King whiting or "kingfish"			300	4	700	42		
Mackerel			5, 100	474				
Menhaden	51, 510, 000	$210, 073	10, 687, 000	35, 635			2, 000	20
Scup or porgy			453, 600	9, 474			100	2
Sea bass			14, 700	955				
Shad			100	5	73, 900	15, 366	7, 300	900
Spanish mackerel			300	19				
Spot			200	4				
Squeteagues or "sea trout," gray			2, 120, 600	39, 913	25, 600	1, 680	1, 100	45
Striped bass			8, 100	812	83, 100	11, 635		

Fisheries of New Jersey, 1937—Continued

CATCH: BY GEAR—Continued

Species	Purse seines				Haul seines		Gill nets	
	Menhaden		Other				Anchor	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Suckers					20, 900	$1, 076		
White perch					33, 300	3, 328		
Whiting			3, 400	$34				
Yellow perch					1, 400	150		
Crabs:								
Hard					10, 700	1, 095		
Soft and peelers					14, 400	4, 570		
Shrimp					3, 000	750		
Total	51, 510, 000	$210, 073	14, 000, 000	103, 490	556, 800	54, 370	11, 200	$1, 027

Species	Gill nets—Continued						Lines	
	Drift		Runaround		Stake		Hand	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives					2, 400	$24		
Bluefish	7, 900	$946	127, 000	$10, 267			417, 900	$30, 147
Bonito	100	8					700	42
Butterfish	2, 400	93						
Carp					10, 000	800		
Cod							19, 000	609
Croaker	93, 100	1, 453	1, 000	10			16, 200	464
Eels:								
Common							5, 500	396
Conger							300	3
Flounders:								
Blackback							100	10
Fluke							10, 000	958
Groupers							21, 500	978
Mackerel	372, 900	19, 519	37, 100	1, 146				
Pompano							100	35
Scup or porgy			600	6			37, 500	506
Sea bass							325, 700	23, 528
Shad	168, 100	14, 402			1, 944, 300	168, 137		
Sharks	100	3						
Snapper, red							53, 900	3, 794
Spot	500	10						
Squeteagues or "sea trout," gray	122, 000	3, 832	271, 800	11, 539	3, 700	242	45, 000	1, 966
Striped bass	2, 000	232			121, 600	15, 385	200	30
Sturgeon	2, 000	150						
Tautog							2, 700	54
White perch	1, 200	100			15, 300	1, 398		
Whiting	100	2					800	15
Crabs, hard			3, 100	90	1, 100	30		
Total	772, 400	40, 750	440, 600	23, 058	2, 098, 400	186, 016	957, 100	63, 535

Species	Lines—Continued							
	Trawl		Troll		Trot with baits or snoods		Trot with hooks	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Bluefish			475, 900	$33, 457				
Bonito			47, 200	2, 726				
Cero	51, 100	$1, 272						
Cod	2, 244, 800	58, 648						
Frigate mackerel			300	10				
Kingfish or "king mackerel"			149, 500	5, 677				
Mackerel			15, 900	711				
Skates	1, 900	10						
Tuna			4, 400	210				
Crabs:								
Hard					132, 300	$6, 016		
Soft and peelers					600	225		
Turtles, snapper							4, 000	$200
Total	2, 297, 800	59, 930	693, 200	42, 791	132, 900	6, 241	4, 000	200

Fisheries of New Jersey, 1937—Continued

CATCH: BY GEAR—Continued

Species	Pound nets		Weirs		Stop nets		Fyke nets	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	352, 300	$3, 479	-----	-----	-----	-----	-----	-----
Bluefish	373, 200	21, 468	-----	-----	-----	-----	-----	-----
Bonito	123, 300	4, 534	-----	-----	-----	-----	-----	-----
Butterfish	2, 554, 500	95, 248	-----	-----	-----	-----	-----	-----
Carp	-----	-----	-----	-----	183, 700	$13, 398	-----	-----
Catfish and bullheads	-----	-----	-----	-----	3, 000	167	36, 100	$1, 402
Cod	189, 100	4, 585	-----	-----	-----	-----	-----	-----
Croaker	2, 147, 200	37, 541	-----	-----	-----	-----	-----	-----
Drum:								
Black	5, 100	73	-----	-----	-----	-----	-----	-----
Red or redfish	9, 800	194	-----	-----	-----	-----	-----	-----
Eels:								
Common	21, 800	3, 439	-----	-----	-----	-----	25, 700	3, 221
Conger	3, 400	65	-----	-----	-----	-----	-----	-----
Flounders:								
Gray sole	2, 000	80	-----	-----	-----	-----	-----	-----
Yellowtail and dab	5, 000	194	-----	-----	-----	-----	-----	-----
Blackback	20, 300	828	-----	-----	-----	-----	89, 600	3, 483
Fluke	188, 000	14, 487	-----	-----	-----	-----	-----	-----
Frigate mackerel	157, 600	1, 912	-----	-----	-----	-----	-----	-----
Grayfish	50, 900	509	-----	-----	-----	-----	-----	-----
Hake	3, 100	80	-----	-----	-----	-----	-----	-----
Herring, sea	363, 900	3, 473	-----	-----	-----	-----	-----	-----
Hickory shad	1, 400	20	-----	-----	-----	-----	-----	-----
King whiting or "kingfish"	68, 600	2, 763	-----	-----	-----	-----	-----	-----
Mackerel	1, 234, 100	37, 061	-----	-----	-----	-----	-----	-----
Menhaden	5, 557, 000	18, 587	-----	-----	-----	-----	-----	-----
Mullet	500	14	-----	-----	-----	-----	-----	-----
Pollock	1, 400	41	-----	-----	-----	-----	-----	-----
Rudderfish	2, 100	21	-----	-----	-----	-----	-----	-----
Scup or porgy	2, 771, 400	48, 045	-----	-----	-----	-----	-----	-----
Sea bass	90, 000	5, 153	-----	-----	-----	-----	-----	-----
Sea robin	48, 900	489	-----	-----	-----	-----	-----	-----
Shad	1, 145, 600	123, 896	-----	-----	-----	-----	-----	-----
Sharks	43, 100	675	-----	-----	-----	-----	-----	-----
Skates	54, 200	395	-----	-----	-----	-----	-----	-----
Spanish mackerel	50, 000	4, 181	-----	-----	-----	-----	-----	-----
Spot	13, 800	290	-----	-----	-----	-----	-----	-----
Squeteagues or "sea trout," gray	7, 432, 900	219, 385	-----	-----	-----	-----	-----	-----
Squirrel hake	114, 800	1, 158	-----	-----	-----	-----	-----	-----
Striped bass	800	74	-----	-----	-----	-----	25, 400	3, 570
Sturgeon	600	80	-----	-----	-----	-----	-----	-----
Suckers	-----	-----	-----	-----	200	14	-----	-----
Swellfish	100	1	-----	-----	-----	-----	-----	-----
Tautog	8, 600	180	-----	-----	-----	-----	-----	-----
Thimble-eyed mackerel	15, 100	275	-----	-----	-----	-----	-----	-----
Tuna	46, 300	1, 538	-----	-----	-----	-----	-----	-----
White perch	-----	-----	-----	-----	-----	-----	33, 100	3, 410
Whiting	8, 243, 100	84, 509	-----	-----	-----	-----	-----	-----
Yellow perch	-----	-----	-----	-----	-----	-----	4, 300	516
Yellowtail	700	14	-----	-----	-----	-----	-----	-----
Crabs:								
Hard	20, 900	500	-----	-----	-----	-----	-----	-----
King	1, 760, 300	5, 021	998, 200	$2, 170	-----	-----	8, 000	30
Soft and peelers	100	1	-----	-----	-----	-----	-----	-----
Lobsters	200	22	-----	-----	-----	-----	-----	-----
Squid	978, 400	18, 430	-----	-----	-----	-----	-----	-----
Turtles:								
Hawksbill	3, 900	78	-----	-----	-----	-----	-----	-----
Loggerhead	6, 700	122	-----	-----	-----	-----	-----	-----
Snapper	-----	-----	-----	-----	-----	-----	4, 200	311
Total	36, 286, 100	765, 208	998, 200	2, 170	186, 900	13, 579	226, 400	15, 943

Species	Dip nets		Cast nets		Drag nets		Drop nets	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Carp	-----	-----	3, 500	$265	-----	-----	-----	-----
Crabs:								
Hard	15, 600	$1, 841	-----	-----	-----	-----	500	$216
Soft and peelers	40, 700	13, 885	-----	-----	-----	-----	-----	-----
Shrimp	-----	-----	-----	-----	13, 800	$3, 450	-----	-----
Total	56, 300	15, 726	3, 500	265	13, 800	3, 450	500	216

Fisheries of New Jersey, 1937—Continued

CATCH: BY GEAR—Continued

Species	Push nets		Otter trawls		Wire baskets		Pots			
							Crab		Eel	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Bluefish			6,700	$524						
Butterfish			467,600	20,272						
Cod			41,200	1,437						
Croaker			1,144,800	20,541						
Drum, red or redfish			300	6						
Eels:										
Common									140,700	$13,000
Conger			26,400	439						
Flounders:										
Gray sole			3,100	83						
Yellowtail and dab			8,800	173						
Blackback			24,200	726						
Fluke			1,945,900	155,559						
Grayfish			6,700	34						
Hake			46,400	1,357						
King whiting or "kingfish"			8,700	239						
Mackerel			4,000	482						
Pigfish			100	2						
Pollock			100	4						
Scup or porgy			1,780,700	26,674						
Sea bass			316,600	20,154						
Sea robin			6,500	108						
Shad			200	24						
Sharks			500	12						
Skates			1,600	32						
Spot			300	6						
Squeteagues or "sea trout," gray			491,400	12,230						
Sturgeon			3,700	415						
Tautog			1,100	16						
Tilefish			300	15						
Whiting			376,300	7,249						
Crabs:										
Hard			400	25	200	$25	12,000	$1,500		
Soft and peelers					200	50	3,600	1,350		
Lobsters			9,100	1,049						
Shrimp	20,300	$5,075								
Scallops, sea			100	9						
Squid			167,300	3,956						
Total	20,300	5,075	6,891,100	273,852	400	75	15,600	2,850	140,700	13,000

Species	Pots—Continued				Spears		Dredges	
	Fish		Lobster					
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Bluefish	200	$16						
Cod	1,400	36						
Eels:								
Common					20,500	$2,410		
Conger	900	13						
Scup or porgy	900	11						
Sea bass	1,335,300	64,357	29,000	$1,687				
Squeteagues or "sea trout," gray	1,100	17						
Squirrel hake	400	4						
Tautog	1,800	39						
Crabs, hard							252,300	$8,244
Lobsters	35,000	8,916	224,500	46,091				
Clams:								
Hard, public							57,100	6,063
Hard, private							73,500	11,132
Surf							613,900	18,984
Oysters, market:								
Public, spring							3,200	360
Public, fall							3,200	360
Private, spring							1,884,900	251,167
Private, fall							2,332,500	320,845
Scallops, sea							234,000	13,650
Total	1,377,000	73,409	253,500	47,778	20,500	2,410	5,454,600	630,805

Fisheries of New Jersey, 1937—Continued

CATCH: BY GEAR—Continued

Species	Tongs		Rakes		Hoes		By hand	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Crabs, hard	--------	--------	186, 500	$2, 322	--------	--------	--------	--------
Clams.								
Hard, public	570, 200	$95, 941	1, 201, 000	219, 791	--------	--------	383, 200	$61, 480
Hard, private	121, 700	18, 530	66, 200	10, 037	--------	--------	50, 300	7, 798
Soft, public	--------	--------	--------	--------	1, 177, 700	$68, 646	--------	--------
Oysters, market:								
Public, spring	44, 000	10, 345	5, 800	730	--------	--------	--------	--------
Public, fall	134, 300	12, 248	5, 800	731	--------	--------	--------	--------
Private, spring	17, 700	3, 730	30, 600	7, 523	--------	--------	2, 200	508
Private, fall	64, 400	14, 715	31, 200	7, 664	--------	--------	2, 900	666
Terrapin, diamond-back	--------	--------	--------	--------	--------	--------	700	261
Total	952, 300	155, 509	1, 527, 100	248, 798	1, 177, 700	68, 646	439, 300	70, 713

OPERATING UNITS: BY COUNTIES

Item	Atlantic	Bergen	Burlington	Camden	Cape May	Cumberland	Gloucester
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	61	3	9	--------	352	406	--------
On boats and shore:							
Regular	224	15	20	--------	130	23	--------
Casual	198	104	44	18	248	187	18
Total	483	122	73	18	730	616	18
Vessels, motor:							
5 to 10 tons	2	--------	--------	--------	30	7	--------
11 to 20 tons	11	1	2	--------	21	36	--------
21 to 30 tons	2	--------	--------	--------	4	15	--------
31 to 40 tons	1	--------	--------	--------	5	4	--------
41 to 50 tons	--------	--------	--------	--------	2	--------	--------
51 to 60 tons	--------	--------	--------	--------	1	5	--------
71 to 80 tons	--------	--------	--------	--------	1	--------	--------
Total	16	1	2	--------	64	67	--------
Net tonnage	233	15	22	--------	1, 001	1, 374	--------
Boats:							
Motor	159	1	28	--------	151	45	2
Other	249	59	20	9	214	153	12
Accessory boats	9	--------	--------	--------	39	--------	--------
Apparatus:							
Purse seines:							
Other than menhaden	1	--------	--------	--------	7	--------	--------
Length, yards	360	--------	--------	--------	2, 430	--------	--------
Haul seines	27	--------	7	9	8	14	2
Length, yards	1, 884	--------	544	700	407	1, 344	185
Gill nets:							
Drift	2	--------	8	--------	383	38	1
Square yards	480	--------	9, 600	--------	176, 768	28, 469	3, 600
Stake	75	57	--------	--------	--------	114	--------
Square yards	24, 780	81, 791	--------	--------	--------	19, 188	--------
Lines:							
Hand	10	--------	--------	--------	270	5	--------
Hooks	19	--------	--------	--------	670	6	--------
Trawl	153	--------	--------	--------	287	4	--------
Hooks	118, 400	--------	--------	--------	190, 800	1, 800	--------
Troll	12	--------	--------	--------	299	--------	--------
Hooks	12	--------	--------	--------	299	--------	--------
Trot with baits or snoods	--------	--------	--------	--------	2	15	--------
Baits or snoods	--------	--------	--------	--------	6	13, 100	--------
Trot with hooks	--------	--------	--------	--------	--------	1	--------
Hooks	--------	--------	--------	--------	--------	150	--------
Pound nets	2	--------	--------	--------	88	--------	--------
Weirs	--------	--------	--------	--------	62	29	--------
Stop nets	--------	--------	9	2	--------	11	7
Square yards	--------	--------	10, 325	3, 400	--------	13, 267	19, 000
Fyke nets	1	--------	74	--------	17	161	119
Dip nets	4	--------	--------	--------	3	--------	--------
Cast nets	--------	--------	--------	--------	--------	--------	2
Drop nets	--------	--------	--------	--------	40	--------	--------
Push nets	2	--------	--------	--------	--------	--------	--------
Otter trawls	14	--------	--------	--------	44	--------	--------
Yards at mouth	320	--------	--------	--------	1, 008	--------	--------

Fisheries of New Jersey, 1937—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Atlantic	Bergen	Burlington	Camden	Cape May	Cumberland	Gloucester
Apparatus—Continued							
Pots:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Eel	12	137	35	--------	95	40	--------
Fish	900	--------	--------	--------	2, 170	--------	--------
Spears	--------	--------	--------	--------	3	--------	--------
Dredges:							
Clam	4	--------	--------	--------	14	8	--------
Yards at mouth	3	--------	--------	--------	12	9	--------
Crab	--------	10	--------	--------	--------	--------	--------
Yards at mouth	--------	10	--------	--------	--------	--------	--------
Oyster	16	--------	10	--------	--------	134	--------
Yards at mouth	16	--------	12	--------	--------	168	--------
Scallops	2	--------	--------	--------	4	--------	--------
Yards at mouth	7	--------	--------	--------	13	--------	--------
Tongs:							
Oyster	31	--------	8	--------	5	132	--------
Other	200	--------	28	--------	133	--------	--------
Rakes:							
Oyster	14	--------	3	--------	2	--------	--------
Other	210	--------	7	--------	116	--------	--------
Hoes	15	--------	--------	--------	--------	--------	--------

Item	Hudson	Hunterdon	Mercer	Middlesex	Monmouth	Ocean	Salem
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	2	--------	--------	2	160	137	--------
On boats and shore:							
Regular	--------	--------	--------	8	280	269	23
Casual	9	32	20	6	280	363	54
Total	11	32	20	16	720	769	77
Vessels:							
Motor:							
5 to 10 tons	1	--------	--------	1	5	22	--------
11 to 20 tons	--------	--------	--------	--------	2	--------	--------
31 to 40 tons	--------	--------	--------	--------	5	--------	--------
141 to 150 tons	--------	--------	--------	--------	1	--------	--------
Total	1	--------	--------	1	13	22	--------
Net tonnage	9	--------	--------	8	399	136	--------
Sail:							
5 to 10 tons	--------	--------	--------	--------	2	--------	--------
11 to 20 tons	--------	--------	--------	--------	1	--------	--------
Total	--------	--------	--------	--------	3	--------	--------
Net tonnage	--------	--------	--------	--------	32	--------	--------
Total vessels	1	--------	--------	1	16	22	--------
Total net tonnage	9	--------	--------	8	431	136	--------
Boats:							
Motor	1	--------	--------	7	240	310	27
Other	2	6	5	6	333	227	22
Accessory boats	--------	--------	--------	--------	22	1	--------
Apparatus:							
Purse seines, menhaden	--------	--------	--------	--------	6	--------	--------
Length, yards	--------	--------	--------	--------	1, 680	--------	--------
Haul seines	--------	6	2	--------	4	27	15
Length, yards	--------	1, 150	470	--------	78	1, 165	1, 646
Gill nets:							
Anchor	--------	--------	--------	3	3	--------	--------
Square yards	--------	--------	--------	2, 500	6, 840	--------	--------
Drift	--------	--------	1	--------	215	9	21
Square yards	--------	--------	875	--------	113, 730	7, 200	130, 100
Runaround	--------	--------	--------	6	29	17	--------
Square yards	--------	--------	--------	16, 470	105, 420	67, 700	--------
Stake	9	--------	--------	8	30	254	32
Square yards	9, 639	--------	--------	1, 600	51, 985	27, 392	2, 800
Lines:							
Hand	--------	--------	--------	--------	114	45	--------
Hooks	--------	--------	--------	--------	135	55	--------
Trawl	--------	--------	--------	--------	27	95	--------
Hooks	--------	--------	--------	--------	14, 000	48, 000	--------

Fisheries of New Jersey, 1937—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Hudson	Hunterdon	Mercer	Middlesex	Monmouth	Ocean	Salem
Apparatus—Continued.							
Lines—Continued.	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Troll					104	67	
Hooks					104	67	
Trot with baits or snoods							4
Baits or snoods							1,700
Pound nets					48	53	
Stop nets							30
Square yards							17,325
Fyke nets					34	297	109
Dip nets					14	7	
Cast nets							1
Drag nets						12	
Yards at mouth						24	
Push nets						11	
Otter trawls	1				1		
Yards at mouth	27				12		
Wire baskets						25	
Pots:							
Crab							10
Eel	10			170	576	401	
Fish						6,977	
Lobster				100	9,599		
Spears					37		
Dredges:							
Clam				4	33	9	
Yards at mouth				5	33	12	
Crab				2	46		
Yards at mouth				4	70		
Oyster					2	14	
Yards at mouth					3	15	
Tongs:							
Oyster					2	9	
Other					1	210	
Rakes:							
Oyster					12	3	
Other				6	367	165	
Hoes					57	29	

CATCH: BY COUNTIES

Species	Atlantic		Bergen		Burlington		Camden		Cape May	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	100	$1			2,600	$26			500	$5
Bluefish	12,500	702							597,500	41,164
Bonito	1,200	54							35,700	1,620
Butterfish	38,600	1,471							1,276,900	53,449
Carp					33,800	2,390	35,600	$2,492		
Catfish and bullheads	11,300	397			4,200	184				
Cero	51,100	1,272								
Cod	575,200	15,993							1,188,200	33,818
Croaker	159,700	2,525							2,315,700	37,583
Drum:										
Black									2,300	23
Red or redfish									7,700	146
Eels:										
Common	49,100	2,511	23,100	$1,878	500	35			37,900	6,260
Conger	3,200	57							25,900	438
Flounders:										
Gray sole									3,100	83
Yellowtail and dab									8,900	169
Blackback					500	15			7,600	412
Fluke	371,500	31,181							1,607,900	127,092
Frigate mackerel									39,700	546
Grayfish									6,700	34
Groupers									21,500	978
Hake	3,200	66							43,200	1,291
Herring, sea	2,000	20							23,000	237
Hickory shad	100	1							1,300	19
Kingfish or "king mackerel"									149,500	5,677
King whiting or "kingfish"	3,600	194							36,000	938
Mackerel									236,400	15,252
Menhaden	5,000	12							10,766,000	35,832

Fisheries of New Jersey, 1937—Continued

CATCH: BY COUNTIES—Continued

Species	Atlantic		Bergen		Burlington		Camden		Cape May	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Mullet	200	$2								
Pigfish									100	$2
Pollock									400	10
Scup or porgy	59, 300	1, 454							2, 754, 100	40, 794
Sea bass	109, 100	6, 676							974, 700	66, 781
Sea robin									16, 500	208
Shad	142, 100	22, 789	860, 100	$69,565	6, 400	$1, 612	10, 900	$1, 515	3, 800	343
Sharks									3, 200	44
Skates									12, 000	86
Snapper, red									53, 900	3, 794
Spanish mackerel	100	5							6, 200	398
Spot	1, 000	30							11, 100	223
Squeteagues or "sea-trout," gray	422, 900	6, 907							4, 996, 000	103, 676
Squirrel hake	100	1							1, 500	25
Striped bass	110, 400	14, 843			16, 000	1, 920			12, 800	1, 412
Sturgeon	200	24							3, 600	395
Suckers					1, 700	133	2, 400	192		
Tautog	2, 700	56							5, 000	85
Thimble-eyed mackerel									100	1
Tilefish									300	15
Tuna									600	30
White perch	32, 500	3, 226			8, 000	1, 040			10, 000	1, 200
Whiting	20, 800	277							523, 100	8, 656
Crabs:										
Hard	2, 300	154	5, 000	200					4, 700	484
King									2, 460, 700	6, 464
Soft and peelers	200	75							900	406
Lobsters	18, 300	4, 177							6, 700	828
Shrimp	2, 200	550								
Clams:										
Hard, public	355, 900	54, 281			17, 900	2, 348			405, 300	81, 594
Hard, private	25, 900	4, 290			22, 400	3, 211			700	278
Soft, public	516, 400	32, 007								
Surf	85, 100	3, 275							496, 100	13, 869
Oysters, market:										
Public, spring	38, 500	9, 145							1, 300	425
Public, fall									1, 200	400
Private, spring	44, 700	10, 740			82, 000	19, 538			18, 000	4, 453
Private, fall	91, 800	21, 805			82, 000	19, 537			18, 900	4, 671
Scallops, sea	54, 000	3, 150							180, 000	10, 500
Squid	10, 100	324							579, 100	10, 519
Turtles, loggerhead									700	11
Total	3, 434, 200	256, 720	888, 200	71, 643	278, 000	51, 989	48, 900	4, 199	32, 002, 400	726, 146

Species	Cumberland		Gloucester		Hudson		Hunterdon		Mercer	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	9, 800	$98							14, 000	$175
Carp	62, 800	3, 959	30, 000	$2, 100			2, 700	$216	500	30
Catfish and bullheads	16, 700	610	12, 000	435						
Cod	9, 100	230								
Croaker	71, 500	830								
Eels, common	14, 500	1, 360	1, 300	150	2, 600	$180				
Flounders, blackback					24, 000	720				
Shad	49, 800	12, 603	900	300	37, 200	3, 475	22, 000	4, 075	6, 500	900
Spot	500	10								
Squeteagues or "sea trout," gray	112, 600	3, 217								
Striped bass	10, 200	1, 336								
Suckers			600	48			7, 100	426	9, 000	270
White perch	8, 500	722								
Crabs:										
Hard	123, 300	4, 929								
King	288, 000	678								
Clams, hard, private	27, 700	3, 290								
Oysters, market:										
Public, fall	128, 900	11, 073								
Private, spring	1, 761, 400	220, 962								
Private, fall	2, 204, 200	289, 640								
Terrapin, diamond-back	700	261								
Turtles, snapper	8, 200	511								
Total	4, 908, 400	556, 319	44, 800	3, 033	63, 800	4, 375	31, 800	4, 717	30, 000	1, 375

Fisheries of New Jersey, 1937—Continued

CATCH: BY COUNTIES—Continued

Species	Middlesex		Monmouth		Ocean		Salem	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives			212, 100	$2, 121	179, 600	$1, 752	4, 400	$44
Bluefish	48, 200	$3, 827	482, 200	33, 936	343, 900	21, 994		
Bonito			57, 200	2, 612	80, 300	3, 156		
Butterfish			355, 600	15, 304	1, 384, 600	46, 651		
Carp							158, 500	11, 637
Catfish and bullheads							16, 000	820
Cod			90, 900	2, 337	701, 500	15, 437		
Croaker			265, 800	3, 353	1, 121, 600	23, 152		
Drum:								
Black			200	4	2, 600	46		
Red or redfish			100	4	2, 300	50		
Eels:								
Common	2, 600	216	109, 800	11, 253	20, 500	1, 594	10, 500	870
Conger			800	8	1, 100	17		
Flounders:								
Gray sole					2, 000	80		
Yellowtail and dab			100	6	4, 800	192		
Blackback			13, 100	434	89, 300	3, 496		
Fluke			68, 700	6, 002	104, 100	7, 632		
Frigate mackerel			40, 400	484	78, 100	895		
Grayfish			50, 900	509				
Hake			500	10	2, 600	70		
Herring, sea			143, 900	1, 317	197, 000	1, 926		
Hickory shad			600	12				
King whiting or "kingfish"			17, 300	990	21, 400	926		
Mackerel	600	28	674, 700	21, 180	757, 400	22, 933		
Menhaden			56, 764, 000	227, 575	221, 000	896		
Mullet			300	12				
Pollock			700	19	400	16		
Pompano			100	35				
Rudderfish			2, 100	21				
Scup or porgy			1, 144, 800	21, 395	1, 086, 600	21, 075		
Sea bass			64, 200	4, 221	963, 300	38, 156		
Sea robin			10, 100	101	28, 800	288		
Shad	12, 500	1, 472	1, 561, 400	141, 880	476, 700	51, 723	149, 200	10, 478
Sharks			9, 800	154	30, 700	492		
Skates			23, 000	229	22, 700	122		
Spanish mackerel			19, 100	2, 024	24, 900	1, 773		
Spot			1, 400	28	800	19		
Squeteagues or "sea trout", gray	76, 000	3, 605	1, 737, 800	56, 946	3, 169, 900	116, 498		
Squirrel hake			37, 700	377	75, 900	759		
Striped bass					91, 000	12, 132	800	95
Sturgeon			500	76			2, 000	150
Suckers							300	21
Swellfish			100	1				
Tautog			4, 400	96	2, 100	52		
Thimble-eyed mackerel					15, 000	274		
Tuna			22, 000	778	28, 100	940		
White perch					19, 400	1, 684	4, 500	364
Whiting			3, 981, 300	39, 858	4, 098, 500	43, 018		
Yellow perch					4, 800	576	900	90
Yellowtail			700	14				
Crabs:								
Hard	6, 000	170	273, 800	10, 025	198, 200	3, 067	22, 300	2, 875
King			17, 800	79				
Soft and peelers			40, 400	13, 325	13, 900	4, 700	4, 200	1, 575
Lobsters	100	25	224, 700	46, 098	19, 000	4, 950		
Shrimp					34, 900	8, 725		
Clams:								
Hard, public	11, 700	1, 418	806, 400	151, 366	614, 300	92, 268		
Hard, private			11, 000	2, 050	224, 000	34, 378		
Soft, public			478, 500	25, 895	182, 800	10, 744		
Surf			19, 500	1, 125	13, 200	715		
Oysters, market:								
Public, spring			9, 000	1, 090	4, 200	775		
Public, fall			9, 000	1, 091	4, 200	775		
Private, spring			3, 500	700	25, 800	6, 535		
Private, fall			3, 500	700	30, 600	7, 537		
Scallops, sea			100	9				
Squid			114, 000	2, 693	442, 500	8, 850		
Turtles:								
Hawksbill			3, 900	78				
Loggerhead			5, 400	105	600	6		
Total	157, 700	10, 761	69, 990, 900	854, 145	17, 263, 500	626, 517	373, 600	29, 019

Fisheries of New Jersey, 1937—Continued

SEED OYSTER FISHERY: BY GEAR

Item	Dredges	Tongs	Rakes	Total, exclusive of duplication
OPERATING UNITS				
Fishermen:	*Number*	*Number*	*Number*	*Number*
On vessels	1,158			1,158
On boats and shore:				
Regular		81	2	83
Casual		117	3	120
Total	1,158	198	5	1,361
Vessels:				
Motor	2			2
Net tonnage	23			23
Sail	103			103
Net tonnage	2,371			2,371
Total vessels	105			105
Total net tonnage	2,394			2,394
Boats:				
Motor		71	4	75
Other		120	1	121
Apparatus:				
Number	210	198	5	
Yards at mouth	260			

Item	Dredges		Tongs		Rakes		Total, exclusive of duplication	
CATCH								
Oysters, seed:	*Bushels*	*Value*	*Bushels*	*Value*	*Bushels*	*Value*	*Bushels*	*Value*
Public, spring	991,500	$385,680	68,660	$17,978	850	$212	1,061,010	$403,870
Public, fall			10,990	2,842	550	138	11,540	2,980
Total	991,500	385,680	79,650	20,820	1,400	350	1,072,550	406,850

SEED OYSTER FISHERY: BY COUNTIES

Item	Atlantic	Burlington	Cape May	Cumberland	Ocean
OPERATING UNITS					
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels				1,158	
On boats and shore:					
Regular	36	20	2	22	3
Casual	7	3		110	
Total	43	23	2	1,290	3
Vessels:					
Motor				2	
Net tonnage				23	
Sail				103	
Net tonnage				2,371	
Total vessels				105	
Total net tonnage				2,394	
Boats:					
Motor	39	9	2	24	1
Other	3	13		103	2
Apparatus:					
Dredges				210	
Yards at mouth				260	
Tongs	42	19	2	132	3
Rakes	1	4			

Item	Atlantic		Burlington		Cape May		Cumberland		Ocean	
CATCH										
Oysters, seed:	*Bushels*	*Value*	*Bushels*	*Value*	*Bushels*	*Value*	*Bushels*	*Value*	*Bushels*	*Value*
Public, spring	6,710	$2,507	10,300	$2,558	1,000	$250	1,033,000	$396,055	10,000	$2,500
Public, fall	1,240	421	10,300	2,559						
Total	7,950	2,928	20,600	5,117	1,000	250	1,033,000	396,055	10,000	2,500

NOTE.—Of the total number of persons fishing for seed oysters, 1,348 are duplicated among those fishing for market oysters or other species. Similarly the following craft and gear are duplicated: 56 sailing vessels, 1 motor vessel, 72 motorboats, 120 other boats, 116 dredges, 193 tongs, and 4 rakes.

PENNSYLVANIA

Fisheries of Pennsylvania, 1937 [1]

OPERATING UNITS: BY GEAR

Item	Haul seines
	Number
Fishermen, on boats and shore, casual	34
Boats, other than motor	8
Apparatus:	
Number	8
Length, yards	1,650

CATCH: BY GEAR

Species	Haul seines	
	Pounds	*Value*
Carp	3,500	$210
Shad	12,600	3,522
Suckers	18,600	900
Total	34,700	4,632

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[1] The commercial fisheries of Pennsylvania are confined to Bucks County.

DELAWARE

Fisheries of Delaware, 1937

OPERATING UNITS: BY GEAR

Item	Purse seines, menhaden	Haul seines	Gill nets			Lines	
			Drift	Run-around	Stake	Hand	Trawl
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:							
On vessels	295						
On boats and shore:							
Regular		4		9	2		
Casual		185	38	11	24	8	2
Total	295	189	38	20	26	8	2
Vessels, steam:							
61 to 70 tons	1						
81 to 90 tons	1						
91 to 100 tons	1						
111 to 120 tons	1						
121 to 130 tons	1						
141 to 150 tons	1						
161 to 170 tons	2						
181 to 190 tons	1						
Total	9						
Net tonnage	1,167						
Boats:							
Motor			9	6	1	2	1
Other		47	10	6	13	2	
Accessory boats	27						
Apparatus:							
Number	9	47	26	10	27	8	1
Length, yards	4,335	11,715					
Square yards			51,925	8,210	14,180		
Hooks, baits, or snoods						16	3,000

Fisheries of Delaware, 1937—Continued

OPERATING UNITS: BY GEAR—Continued

Item	Pound nets	Stop nets	Fyke nets	Dip nets	Cast nets	Pots	
						Eel	Lobster
Fishermen:							
On boats and shore:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Regular				22			
Casual	6	7	28	45	1	17	6
Total	6	7	28	67	1	17	6
Boats:							
Motor			3	5		3	3
Other	4	4	12	51	1	7	
Apparatus:							
Number	17	11	233	67	1	340	115
Square yards		1,580					

Item	Dredges			Tongs, other than for oysters	By hand, other than for oysters	Total, exclusive of duplication
	Clam	Crab	Oyster			
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	14	10	35			337
On boats and shore:						
Regular						25
Casual	2	2		3	27	330
Total	16	12	35	3	27	692
Vessels:						
Steam:						
61 to 70 tons						1
81 to 90 tons						1
91 to 100 tons						1
111 to 120 tons						1
121 to 130 tons						1
141 to 150 tons						1
161 to 170 tons						2
181 to 190 tons						1
Total						9
Net tonnage						1,167
Motor:						
11 to 20 tons	3	2	3			5
21 to 30 tons	1	1	2			2
Total	4	3	5			7
Net tonnage	80	59	105			138
Total vessels	4	3	5			16
Total net tonnage	80	59	105			1,305
Boats:						
Motor	1	1				22
Other				3		128
Accessory boats						27
Apparatus:						
Number	10	8	10	3		
Yards at mouth	12	10	14			

Fisheries of Delaware, 1937—Continued

CATCH: By gear

Species	Purse seines		Haul seines		Gill nets			
					Drift		Runaround	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives			64, 600	$1, 298	2, 800	$54		
Bluefish			1, 900	133	3, 600	252		
Carp			25, 400	2, 032				
Catfish and bullheads			12, 100	368				
Croaker			171, 400	1, 714	56, 800	852	28, 800	$432
Flounders							200	10
Menhaden	48, 857, 000	$227, 831						
Mullet			1, 300	52	1, 000	40	62, 100	2, 490
Shad			2, 600	467	13, 800	2, 085		
Spot					3, 000	150		
Squeteagues or "sea trout," gray			256, 000	7, 680	25, 100	753	2, 400	72
Striped bass			15, 100	1, 604			1, 500	180
Sturgeon					400	74		
White perch			12, 100	1, 209			200	20
Yellow perch			200	8				
Total	48, 857, 000	227, 831	562, 700	16, 565	106, 500	4, 260	95, 200	3, 204

Species	Gill nets—Contd.		Lines				Pound nets	
	Stake		Hand		Trawl			
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives							2, 500	$50
Carp	9, 600	$768					100	8
Catfish and bullheads							1, 300	39
Cod					48, 000	$1, 680		
Croaker			14, 000	$210				
Eels, common							500	65
Flounders	200	10						
Gizzard shad							500	10
Shad	4, 100	695						
Squeteagues or "sea trout," gray			7, 000	210				
Striped bass	10, 700	1, 284						
Tautog			1, 100	33				
White perch	1, 000	100					1, 900	184
Yellow perch							1, 800	84
Total	25, 600	2, 857	22, 100	453	48, 000	1, 680	8, 600	440

Species	Stop nets		Fyke nets		Dip nets		Cast nets	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Carp	9, 400	$752					300	$24
Catfish and bullheads			17, 400	$520				
Croaker			800	8				
Eels, common			16, 300	2, 394				
Flounders			3, 800	194				
Squeteagues or "sea trout," gray			1, 600	48				
Striped bass			4, 500	480				
White perch			3, 800	380				
Yellow perch			4, 200	210				
Crabs:								
Hard			800	16	180, 000	$2, 705		
Soft and peelers					78, 500	14, 894		
Turtles, snapper			3, 100	246				
Total	9, 400	752	56, 300	4, 496	258, 500	17, 599	300	24

Fisheries of Delaware, 1937—Continued

CATCH: BY GEAR—Continued

Species	Pots				Dredges		Tongs		By hand	
	Eel		Lobster							
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Eels, common	16,800	$2,469								
Crabs:										
Hard					83,600	$1,987				
King									489,000	$854
Lobsters			4,300	$1,290						
Clams:										
Hard, public					7,600	920				
Hard, private					16,000	2,330				
Mussels, sea							2,800	$173		
Oysters, market, private, fall					270,200	29,170				
Total	16,800	2,469	4,300	1,290	377,400	34,407	2,800	173	489,000	854

OPERATING UNITS: BY COUNTIES

Item	Kent	New Castle	Sussex
Fishermen:	*Number*	*Number*	*Number*
On vessels	42		295
On boats and shore:			
Regular			25
Casual	104	34	192
Total	146	34	512
Vessels:			
Steam:			
61 to 70 tons			1
81 to 90 tons			1
91 to 100 tons			1
111 to 120 tons			1
121 to 130 tons			1
141 to 150 tons			1
161 to 170 tons			2
181 to 190 tons			1
Total			9
Net tonnage			1,167
Motor:			
11 to 20 tons	5		
21 to 30 tons	2		
Total	7		
Net tonnage	138		
Total vessels	7		9
Total net tonnage	138		1,167
Boats:			
Motor	3	4	15
Other	20	14	94
Accessory boats			27
Apparatus:			
Purse seines, menhaden			9
Length, yards			4,335
Haul seines	16	8	23
Length, yards	3,365	995	7,355
Gill nets:			
Drift		7	19
Square yards		33,850	18,075
Runaround			10
Square yards			8,210
Stake	8	2	17
Square yards	9,360	600	4,220
Lines:			
Hand			8
Hooks			16
Trawl			1
Hooks			3,000

Fisheries of Delaware, 1937—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Kent	New Castle	Sussex
Apparatus—Continued	*Number*	*Number*	*Number*
Pound nets		6	11
Stop nets	5	6	
Square yards	740	840	
Fyke nets	5	141	87
Dip nets			67
Cast nets	1		
Pots:			
Eel	90	36	214
Lobster			115
Dredges:			
Clam	10		
Yards at mouth	12		
Crab	8		
Yards at mouth	10		
Oyster	10		
Yards at mouth	14		
Tongs, other than for oysters	3		

CATCH: BY COUNTIES

Species	Kent		New Castle		Sussex	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives			2,800	$54	67,100	$1,348
Bluefish	100	$7			5,400	378
Carp	14,800	1,184	30,000	2,400		
Catfish and bullheads	2,000	60	28,300	847	500	20
Cod					48,000	1,680
Croaker	53,400	534			218,400	2,682
Eels, common	3,400	542	8,500	1,277	21,700	3,109
Flounders					4,200	214
Gizzard shad			500	10		
Menhaden					48,857,000	227,831
Mullet					64,400	2,582
Shad	5,600	983	11,700	1,749	3,200	515
Spot					3,000	150
Squeteagues or "sea trout," gray	113,500	3,405			178,600	5,358
Striped bass	4,900	490			26,900	3,058
Sturgeon			400	74		
Tautog					1,100	33
White perch	4,600	460	700	63	13,700	1,370
Yellow perch			800	32	5,400	270
Crabs:						
Hard	83,600	1,987	800	16	180,000	2,705
Soft and peeler					78,500	14,894
King	489,000	854				
Lobsters					4,300	1,290
Clams:						
Hard, public	7,600	920				
Hard, private	16,000	2,330				
Mussels, sea	2,800	173				
Oysters, market, private, fall	270,200	29,170				
Turtles, snapper			3,100	246		
Total	1,071,500	43,099	87,600	6,768	49,781,400	269,487

SEED OYSTER FISHERY: BY GEAR

Item	Dredges	
OPERATING UNITS	*Number*	
Fishermen, on vessels		40
Vessels, sail		5
Net tonnage		89
Apparatus:		
Number		10
Yards at mouth		12
CATCH	*Bushels*	*Value*
Oysters, seed, public, spring	83,600	$13,800

NOTE.—The seed oyster fishery of Delaware was confined to Kent County. Of the total number of persons fishing for seed oysters 13 were duplicated among those fishing for market oysters or other species. Similarly the following craft and gear were duplicated: 2 sailing vessels and 4 dredges.

SHAD FISHERY OF THE HUDSON RIVER

The shad fishery of the Hudson River in 1937 was prosecuted by 613 fishermen who used 299 boats, 15 haul seines, 186 drift gill nets, and 113 stake gill nets. The total commercial catch amounted to 878,190 shad, having a weight of 2,732,200 pounds and a value to the fishermen of $212,786. This is an increase of 26 percent in the number of shad and 25 percent in their value as compared with 1936. The average price per pound received by the fishermen was about 8 cents, compared with a price of about 7 cents in 1936.

Stake gill nets accounted for 65 percent of the weight of the shad taken, drift gill nets 34 percent, and haul seines 1 percent.

Statistics of the catch of shad in the Hudson River also are included in the catch data for New York and New Jersey which are published elsewhere in this report.

Shad fishery of the Hudson River, 1937

Item	New York			New Jersey			Total		
Fishermen:									
On boats and shore:	*Number*			*Number*			*Number*		
Regular	62			24			86		
Casual	353			174			527		
Total	415			198			613		
Boats:									
Motor	------			17			17		
Other	218			64			282		
Apparatus:									
Haul seines	15			------			15		
Length, yards	2,422			------			2,422		
Gill nets:									
Drift	185			1			186		
Square yards	595,499			2,030			597,529		
Stake	26			87			113		
Square yards	3,599			133,776			137,375		
Shad caught:	*Number*	*Pounds*	*Value*	*Number*	*Pounds*	*Value*	*Number*	*Pounds*	*Value*
With haul seines	5,900	19,700	$1,433	------	------	------	5,900	19,700	$1,433
With drift gill nets	279,780	932,600	70,009	1,000	3,000	$234	280,780	935,600	70,243
With stake gill nets	7,110	23,700	1,749	584,400	1,753,200	139,361	591,510	1,776,900	141,110
Total	292,790	976,000	73,191	585,400	1,756,200	139,595	878,190	2,732,200	212,786

FISHERIES OF THE CHESAPEAKE BAY STATES

(Area XXIII) [7]

The yield of the commercial fisheries of the Chesapeake Bay States (Maryland and Virginia) during 1937 amounted to 292,244,400 pounds, valued at $6,361,234 to the fishermen, representing a decrease of 7 percent in volume and 2 percent in value as compared with the catch in the previous year. These fisheries gave employment to 16,529 fishermen, as compared with 18,283 in 1936.

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[7] This is the number given to this area by the North American Council on Fishery Investigations. It should be explained that there may be included under this area, craft whose principal fishing ports are in the area but at times fish elsewhere. Data on the operating units and catch of the fisheries of the Chesapeake Bay States have been taken largely from statistics collected by the State fishery agencies of Maryland and Virginia. Supplementary surveys, compilations, and analyses, have been made by agents of this Bureau in order that the figures may be presented in a manner comparable with those of other sections. It should be observed that the persons engaged, gear and craft employed, and the catch of the seed oyster fishery are not included among the statistics of the fishery for market oysters and other species but are shown in separate tables in this section. For a clearer understanding of the statistics published in this section, the reader is referred to the section in the latter part of this document entitled "Statistical survey procedure."

There were 561 fishery wholesale and manufacturing establishments in the two States in 1937, as compared with 585 in 1936. In 1937 these establishments employed 12,005 persons, paid $3,068,069 in salaries and wages, and produced manufactured products (canned, cured, packaged, and byproducts) valued at $10,009,939. In 1936 the wholesale and manufacturing firms employed 12,663 persons, paid $3,073,443 in salaries and wages, and produced manufactured products valued at $9,813,684.

Fisheries of the Chesapeake Bay States, 1937

SUMMARY OF CATCH

Product	Maryland		Virginia		Total	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Fish	10, 365, 000	$392, 995	199, 118, 300	$1, 982, 849	209, 483, 300	$2, 375, 844
Shellfish, etc	39, 587, 600	2, 139, 034	43, 173, 500	1, 846, 356	82, 761, 100	3, 985, 390
Total	49, 952, 600	2, 532, 029	242, 291, 800	3, 829, 205	292, 244, 400	6, 361, 234

OPERATING UNITS: BY STATES

Item	Maryland	Virginia	Total
Fishermen:	*Number*	*Number*	*Number*
On vessels	820	1, 666	2, 486
On boats and shore:			
Regular	4, 278	4, 851	9, 129
Casual	1, 844	3, 070	4, 914
Total	6, 942	9, 587	16, 529
Vessels:			
Steam		25	25
Net tonnage		2, 833	2, 833
Motor	32	139	171
Net tonnage	202	2, 469	2, 671
Sail	151		151
Net tonnage	1, 886		1, 886
Total vessels	183	164	347
Total net tonnage	2, 088	5, 302	7, 390
Boats:			
Motor	2, 743	3, 366	6, 109
Other	1, 688	3, 004	4, 692
Accessory boats		105	105
Apparatus:			
Purse seines, menhaden		36	36
Length, yards		11, 050	11, 050
Haul seines	132	139	271
Length, yards	24, 402	53, 876	78, 278
Gill nets:			
Anchor	417	3	420
Square yards	58, 794	3, 600	62, 394
Drift	235	223	458
Square yards	199, 248	201, 605	400, 853
Stake	3, 001	5, 963	8, 964
Square yards	251, 435	135, 732	387, 167
Lines:			
Hand	100	93	193
Hooks	120	161	281
Trot with baits or snoods	1, 586	1, 962	3, 548
Baits or snoods	1, 005, 750	1, 023, 610	2, 029, 360
Trot with hooks	3	5	8
Hooks	300	2, 550	2, 850
Pound nets	455	1, 656	2, 111
Crab pound nets		277	277
Stop nets		2	2
Square yards		1, 300	1, 300
Fyke nets	1, 834	762	2, 596
Dip nets	863	1, 440	2, 303
Otter trawls		19	19
Yards at mouth		515	515
Slat traps		4	4

Fisheries of the Chesapeake Bay States, 1937—Continued

OPERATING UNITS: BY STATES—Continued

Item	Maryland	Virginia	Total
Apparatus—Continued.			
Pots:	*Number*	*Number*	*Number*
Crab	-------	1,060	1,060
Eel	10,596	677	11,273
Fish	10	221	231
Scrapes	632	114	746
Yards at mouth	632	117	749
Dredges:			
Crab	-------	198	198
Yards at mouth	-------	382	382
Oyster	406	53	459
Yards at mouth	478	84	562
Scallop	-------	2	2
Yards at mouth	-------	6	6
Tongs:			
Oyster	4,252	2,877	7,129
Other	77	353	430
Rakes, oyster	29	515	544
Picks	-------	375	375

CATCH: BY STATES

Species	Maryland		Virginia		Total	
FISH	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	3,819,100	$39,578	15,064,300	$147,871	18,883,400	$187,449
Black bass	41,400	4,909	-------	-------	41,400	4,909
Bluefish	80,900	6,709	528,500	23,187	609,400	29,896
Bonito	16,500	775	18,200	732	34,700	1,507
Butterfish	91,500	4,322	1,956,400	28,699	2,047,900	33,021
Cabio or crab eater	-------	-------	20,100	715	20,100	715
Carp	239,500	14,207	393,700	8,027	633,200	22,234
Catfish and bullheads	500,400	14,555	607,100	21,468	1,107,500	36,023
Cod	-------	-------	900	17	900	17
Crappie	2,700	172	-------	-------	2,700	172
Croaker	982,900	18,171	33,111,700	498,163	34,094,600	516,334
Drum:						
Black	30,800	358	16,600	190	47,400	548
Red or redfish	2,200	49	43,300	768	45,500	817
Eels:						
Common	191,300	16,068	125,500	11,184	316,800	27,252
Conger	400	8	400	7	800	15
Flounders	30,000	1,729	500,000	25,893	530,000	27,622
Gizzard shad	112,800	1,782	238,600	2,571	351,400	4,353
Grayfish	-------	-------	5,400	170	5,400	170
Hake	2,500	40	500	10	3,000	50
Harvestfish or "starfish"	2,800	76	1,090,500	19.802	1,093,300	19,878
Hickory shad	28,200	637	84,600	1,746	112,800	2,383
Hogchoker	17,700	471	-------	-------	17,700	471
Hogfish	-------	-------	600	18	600	18
King whiting or "kingfish"	7,300	401	135,800	4,194	143,100	4,595
Mackerel	2,000	120	100,700	2,031	102,700	2,151
Menhaden	15,000	170	121,965,000	484,904	121,980,000	485,074
Mullet	2,900	131	11,400	282	14,300	413
Pike or pickerel	39,900	6,377	300	30	40,200	6,407
Pompano	-------	-------	11,100	988	11,100	988
Scup	26,000	590	1,931,400	31,008	1,957.400	31,598
Sea bass	15,100	904	197,500	8,586	212,600	9,490
Sea robin	-------	-------	2,800	44	2,800	44
Shad	404,800	39,538	3,085,800	273,073	3,490,600	312,611
Sharks	-------	-------	6,200	207	6,200	207
Sheepshead	-------	-------	100	2	100	2
Skates	-------	-------	16,400	161	16,400	161
Snapper, red	-------	-------	100	4	100	4
Spanish mackerel	33,800	2,378	805.500	18,007	839,300	20,385
Spot	27,600	1,172	2,978,500	54,659	3,006,100	55,831
Squeteagues or "sea trout":						
Gray	1,089,800	34,587	12,606,700	233,242	13,696,500	267,829
Spotted	7,400	526	140,600	7,042	148,000	7,568
Striped bass	2,011,300	156,809	1,004,500	62,757	3,015.800	219,566
Sturgeon	-------	-------	12,700	1,355	12,700	1,355
Suckers	2,800	143	300	6	3,100	149
Sunfish	1,500	49	-------	-------	1,500	49
Swellfish	-------	-------	8,400	117	8,400	117
Tautog	200	10	300	11	500	21
Tomcod	-------	-------	100	1	100	1
Tuna	100	8	-------	-------	100	8

Fisheries of the Chesapeake Bay States, 1937—Continued

CATCH: BY STATES—Continued

Species	Maryland		Virginia		Total	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
FISH—continued						
White perch	296, 700	$12, 668	195, 400	$5, 183	492, 100	$17, 851
Whiting	------------	----------	17, 200	194	17, 200	194
Yellow perch	187, 200	11, 798	76, 600	3, 523	263. 800	15, 321
Total	10, 365, 000	392, 995	199, 118, 300	1, 982, 849	209, 483, 300	2, 375, 844
SHELLFISH, ETC.						
Crabs:						
Hard	16, 198, 300	393, 304	27, 927, 500	565, 052	44, 125, 800	958, 356
Soft and peelers	2, 514, 100	211, 196	2, 475, 300	224, 915	4, 989, 400	436, 111
Shrimp	------------	----------	1, 700	120	1, 700	120
Clams: [1]						
Hard, public	64, 000	12, 000	1, 624, 100	269, 032	1, 688, 100	281, 032
Hard, private	------------	----------	7, 000	1, 750	7. 000	1, 750
Mussels, sea	------------	----------	27, 700	788	27, 700	788
Oysters, market: [2]						
Public, spring	6, 223, 200	406, 089	1, 284, 600	88, 460	7. 509. 800	494, 549
Public, fall	12, 936, 000	903, 568	2, 104, 800	144. 570	15, 040, 800	1, 048, 138
Private, spring	585, 100	90, 393	2, 347, 800	169, 730	2, 932, 900	260, 123
Private, fall	985, 400	119, 424	5. 248, 800	378, 390	6, 234, 200	497, 814
Scallops, sea [3]	------------	----------	10, 800	1, 426	10, 800	1, 426
Squid	73, 000	1, 120	111, 900	2, 101	184, 900	3, 221
Terrapin, diamond-back	3. 500	1, 590	------------	----------	3, 500	1, 590
Turtles, snapper	5, 000	350	1, 500	22	6, 500	372
Total	39, 587, 600	2, 139, 034	43, 173, 500	1, 846, 356	82, 761, 100	3, 985. 390
Grand total	49, 952. 600	2, 532, 029	242, 291, 800	3, 829, 205	292, 244, 400	6, 361, 234

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[1] Statistics on hard clams used in this table are based on yields of 8 pounds of meats per bushel for clams from public beds and 7 pounds for those from private beds.

[2] Statistics on market oysters used in this table are based on yields of 5.98 pounds of meats per bushel in Maryland, and 6.06 pounds in Virginia.

[3] The sea scallops were taken by a Virginia vessel operating off the New England and Middle Atlantic States.

NOTE.—The seed oyster fishery was prosecuted in this section only in Virginia where 1,220 fishermen using 13 motor vessels, 433 motorboats, 33 other boats, and 910 tongs took 794,100 bushels of seed oysters, valued at $198,485 from public beds and 2,400 bushels, valued at $600, from private beds. Of the total number of persons fishing for seed oysters, 815 are duplicated among those fishing for market oysters or other species. Similarly, the following craft and gear are duplicated: 295 motorboats, 21 other boats, and 606 tongs.

SUPPLEMENTARY TABLE SHOWING THE PRODUCTION OF CERTAIN SHELLFISH IN NUMBER AND BUSHELS

Product	Maryland		Virginia		Total	
	Quantity	*Value*	*Quantity*	*Value*	*Quantity*	*Value*
Crabs:						
Hard ......number	48, 594, 900	$393, 304	83, 782, 500	$565, 052	132, 377, 400	$958, 356
Soft and peelers ......do	10, 056, 400	211, 196	9, 901, 200	224, 915	19, 957, 600	436, 111
Clams:						
Hard, public ......bushels	8, 000	12, 000	203, 012	269, 032	211, 012	281, 032
Hard, private ......do	------------	----------	1, 000	1, 750	1, 000	1, 750
Mussels, sea ......do	------------	----------	2, 308	788	2, 308	788
Oysters, market:						
Public, spring ......do	1, 040, 669	406, 089	211, 980	88, 460	1, 252, 649	494, 549
Public, fall ......do	2, 163. 211	903, 568	347, 327	144, 570	2, 510, 538	1, 048, 138
Private, spring ......do	97, 843	90, 393	387, 426	169. 730	485, 269	260. 123
Private, fall ......do	164, 783	119, 424	866, 139	378, 390	1, 030, 922	497, 814
Scallops, sea ......do	------------	----------	2, 700	1, 426	2, 700	1, 426

Industries Related to the Fisheries of the Chesapeake Bay States, 1937

OPERATING UNITS, SALARIES, AND WAGES

Item	Maryland	Virginia	Total
Transporting:	*Number*	*Number*	*Number*
Persons engaged	315	881	1, 196
Vessels:			
Steam	-----------	1	1
Net tonnage	-----------	83	83
Motor	159	441	600
Net tonnage	2, 102	4, 251	6, 353
Sail	1	-----------	1
Net tonnage	21	-----------	21
Total vessels	160	442	602
Total net tonnage	2, 123	4, 334	6, 457
Wholesale and manufacturing:			
Establishments	319	242	561
Persons engaged:			
Proprietors	437	281	718
Salaried employees	212	173	385
Wage earners:			
Average for season	6, 266	4, 636	10, 902
Average for year	2, 837	1, 808	4, 645
Paid to salaried employees	$226, 966	$271, 771	$498, 737
Paid to wage earners	$1, 635, 704	$933, 628	$2, 569, 332
Total salaries and wages	$1, 862, 670	$1, 205, 399	$3, 068, 069
Fishermen manufacturing	80	-----------	80

PRODUCTS MANUFACTURED

Item	Maryland		Virginia	
	Quantity	*Value*	*Quantity*	*Value*
By manufacturing establishments:				
Alewives:				
Salted:				
Corned ..... pounds	(1)	(1)	1, 943, 634	$30, 337
Pickled [2] ..... do	2, 471, 575	$70, 701	-----------	-----------
Tight-pack cut ..... do	(1)	(1)	1, 597, 150	53, 787
Canned ..... standard cases	35, 511	84, 527	19, 482	55, 058
Roe, canned ..... do	15, 030	86, 535	23, 230	131, 202
Dry scrap ..... tons	(1)	(1)	465	20, 347
Oil ..... gallons	(1)	(1)	5, 200	1, 556
Croaker:				
Fresh fillets ..... pounds	-----------	-----------	95, 800	11, 770
Fresh pan-dressed ..... do	-----------	-----------	107, 000	9, 490
Flounders, fresh fillets ..... do	-----------	-----------	54, 200	8, 136
Menhaden products:				
Dry scrap ..... tons	-----------	-----------	14, 091	606, 841
Oil ..... gallons	-----------	-----------	1, 361, 181	522, 476
Sea bass:				
Fresh fillets ..... pounds	-----------	-----------	104, 800	17, 270
Fresh pan-dressed ..... do	-----------	-----------	60, 000	6, 600
Scup:				
Fresh fillets ..... do	-----------	-----------	24, 400	3, 690
Fresh pan-dressed ..... do	-----------	-----------	28, 000	2, 620
Squeteagues:				
Fresh fillets ..... do	-----------	-----------	163, 400	22, 910
Fresh pan dressed ..... do	-----------	-----------	310, 000	23, 000
Crabs, blue, meat packaged, fresh-cooked ..... do	2, 617, 704	896, 475	1, 637, 254	579, 199
Clams, hard, chowder, canned ..... standard cases	37, 613	84, 681	-----------	-----------
Oysters, fresh-shucked ..... gallons	2, 630, 334	2, 937, 625	1, 376, 628	1, 596, 231
Oyster-shell products:				
Poultry feed ..... tons	37, 621	171, 855	19, 377	113, 395
Lime ..... do	29, 180	52, 190	18, 343	112, 082
Lime, "burned" ..... do	-----------	-----------	13, 098	89, 119

[1] The production of this item is included under "Unclassified products."

[2] This item is usually an intermediate product and although included in the total may be shown in its final stage of processing in this or another State.

Industries Related to the Fisheries of the Chesapeake Bay States, 1937—Continued

PRODUCTS MANUFACTURED—Continued

Item	Maryland		Virginia	
	Quantity	*Value*	*Quantity*	*Value*
By manufacturing establishlishments—Continued.				
Unclassified products:				
Packaged, fresh fillets and pan-dressed ... pounds	----------	----------	[3] 150,000	[3] $10.830
Acid and dry scrap, and meal ... tons	[4] 805	[4] $17,857	[5] 2,437	[5] 58,310
Canned ... standard cases	[6] 25,147	[6] 161,655	(7)	(7)
Smoked and salted ... pounds	[8] 730,750	[8] 171,738	(7)	(7)
Miscellaneous	----------	[9] 1,178,150	----------	[10] 9,694
Total	----------	5,913,989	----------	4,095.950
By fishermen:				
Alewives, salted ... pounds	188,025	7,087	----------	----------
Eels:				
Salted ... do	76,550	6,482	----------	----------
Smoked ... do	600	176	----------	----------
Hogchokers, salted ... do	9,075	475	----------	----------
Total	274,250	14,220	----------	----------
Grand total	----------	5,928,209	----------	4,095,950

[3] Includes fresh fillets of sea robin; fresh pan-dressed flounders and whiting; and frozen fillets of croaker.

[4] Includes alewife and blue crab dry scrap.

[5] Includes blue crab and miscellaneous dry scrap; menhaden, starfish and miscellaneous fish meals; and alewife and menhaden acid scrap.

[6] Includes canned oysters, fish paste, fish cakes, and oyster, shrimp, and terrapin soup.

[7] The production of this item is included under "Miscellaneous."

[8] Includes smoked butterfish, carp, chub, cisco, tullibees, eels, sea herring, salmon, shad, sturgeon, lake trout, and whitefish; corned alewives and tight-pack cut alewives.

[9] Includes marine-shell buttons and novelties; canned cat and dog food; and alewife oil.

[10] Includes fresh-shucked hard clams, tight-pack alewife roe, miscellaneous fish oil, and canned blue crabs.

NOTE.—The total value of manufactured products in the Chesapeake Bay States was as follows: By manufacturing establishments, $10,009,939, and by fishermen, $14,220. Some of the above products may have been imported from another State or a foreign country; therefore, they cannot be correlated directly with the catch within the State. Of the total number of persons engaged on transporting vessels, 1,047 have been included as fishermen, and among the total number of persons engaged in the preparation of fishermen's prepared products all have been included as fishermen.

MARYLAND

Fisheries of Maryland, 1937

OPERATING UNITS: BY GEAR

Item	Haul seines	Gill nets			Lines		
		Anchor	Drift	Stake	Hand	Trot with baits or snoods	Trot with hooks
Fishermen:							
On boats and shore:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Regular	233	37	56	118	--------	1,213	--------
Casual	150	28	216	146	40	163	2
Total	383	65	272	264	40	1,376	2
Boats:							
Motor	75	26	66	116	20	1,227	2
Other	107	16	102	78	--------	138	1
Apparatus:							
Number	132	417	235	3,001	100	1,586	3
Length, yards	24,402	--------	--------	--------	--------	--------	--------
Square yards	--------	58,794	199,248	251,435	--------	--------	--------
Hooks, bait, or snoods	--------	--------	--------	--------	120	1,005,750	300

Fisheries of Maryland, 1937—Continued

OPERATING UNITS: BY GEAR—Continued

Item	Pound nets	Fyke nets	Dip nets	Pots		Scrapes
				Eel	Fish	
Fishermen:						
On boats and shore:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Regular	303	56	542	122	----------	296
Casual	122	101	321	39	1	----------
Total	425	157	863	161	1	296
Boats:						
Motor	139	61	99	88	----------	----------
Other	112	69	764	32	1	296
Apparatus:						
Number	455	1,834	863	10,596	10	632
Yards at mouth	----------	----------	----------	----------	----------	623

Item	Dredges, oyster	Tongs		Rakes, other than for oysters	By hand, other than for oysters	Total, exclusive of duplication
		Oyster	Other			
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	758	62	----------	----------	----------	820
On boats and shore:						
Regular	97	3,486	66	29	57	4,278
Casual	----------	704	11	----------	1	1,844
Total	855	4,252	77	29	58	6,942
Vessels:						
Motor:						
5 to 10 tons	1	30	----------	----------	----------	31
11 to 20 tons	----------	1	----------	----------	----------	1
Total	1	31	----------	----------	----------	32
Net tonnage	7	195	----------	----------	----------	202
Sail:						
5 to 10 tons	101	----------	----------	----------	----------	101
11 to 20 tons	25	----------	----------	----------	----------	25
21 to 30 tons	16	----------	----------	----------	----------	16
31 to 40 tons	5	----------	----------	----------	----------	5
41 to 50 tons	2	----------	----------	----------	----------	2
51 to 60 tons	2	----------	----------	----------	----------	2
Total	151	----------	----------	----------	----------	151
Net tonnage	1,886	----------	----------	----------	----------	1,886
Total vessels	152	31	----------	----------	----------	183
Total net tonnage	1,893	195	----------	----------	----------	2,088
Boats:						
Motor	39	2,006	24	5	----------	2,743
Other	36	142	52	15	30	1,688
Apparatus:						
Number	406	4,252	77	29	----------	----------
Yards at mouth	478	----------	----------	----------	----------	----------

CATCH: BY GEAR

Species	Haul seines		Gill nets					
			Anchor		Drift		Stake	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	84,900	$903	1,700	$55	16,700	$456	60,100	$1,119
Black bass	23,500	2,576	--------	--------	--------	--------	100	7
Bluefish	3,600	294	--------	--------	6,200	610	900	72
Butterfish	400	40	--------	--------	--------	--------	200	14
Carp	203,000	12,421	--------	--------	2,600	125	5,400	204
Catfish and bullheads	164,600	4,080	300	9	3,200	83	1,500	54
Crappie	200	8	--------	--------	--------	--------	100	4
Croaker	376,700	6,629	--------	--------	--------	--------	5,100	169
Eels, common	1,300	123	--------	--------	--------	--------	--------	--------

Fisheries of Maryland, 1937—Continued

CATCH: BY GEAR—Continued

Species	Haul seines		Gill nets					
			Anchor		Drift		Stake	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Flounders	1,000	$40						
Gizzard shad	19,200	269			2,000	$20	1,400	$24
Hickory shad	700	24			400	17	1,600	38
Menhaden	3,000	50						
Mullet	800	47					2,000	80
Pike or pickerel	11,100	2,190	100	$15			1,500	273
Scup							9,000	360
Shad	2,900	305	2,100	165	70,600	7,866	31,600	3,568
Spanish mackerel	1,000	79						
Spot	9,200	459						
Squeteagues or "sea trout":								
Gray	34,600	1,658	100	10			1,200	86
Spotted	4,200	285						
Striped bass	443,900	33,801	54,400	4,582	296,500	24,847	351,500	27,942
Suckers	600	20					100	3
Sunfish	1,000	29						
Tuna							100	8
White perch	48,300	2,191	1,500	75	5,200	248	11,900	677
Yellow perch	26,300	1,340	400	39			1,600	123
Crabs, soft and peelers	62,300	6,298						
Total	1,528,300	76,159	60,600	4,950	403,400	34,272	486,900	34,825

Species	Lines						Pound nets	
	Hand		Trot with baits or snoods		Trot with hooks			
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives							3,638,400	$36,843
Black bass							1,200	129
Bluefish	50,000	$4,000					20,200	1,733
Bonito	4,000	200					12,500	575
Butterfish							90,900	4,268
Carp							9,400	392
Catfish and bullheads					1,800	$66	70,700	2,220
Crappie							300	19
Croaker							600,100	11,353
Drum:								
Black							30,800	358
Red or redfish							2,200	49
Eels:								
Common					100	9	6,100	462
Conger	400	8						
Flounders							27,300	1,557
Gizzard shad							85,100	1,289
Hake							2,500	40
Harvestfish or "starfish"							2,800	76
Hickory shad							25,500	558
Hogchoker							17,700	471
King whiting or "kingfish"							7,300	401
Mackerel							2,000	120
Menhaden							12,000	120
Pike or pickerel							1,500	208
Scup	5,000	50					12,000	180
Sea bass	15,000	900					100	4
Shad							295,000	27,294
Spanish Mackerel							32,800	2,299
Spot							18,400	713
Squeteagues or "sea trout":								
Gray	6,000	480					1,047,300	32,311
Spotted							3,200	241
Striped bass							857,000	64,890
Sunfish							500	20
Tautog	200	10						
White perch							141,600	5,568
Yellow perch							11,000	741
Crabs:								
Hard			16,050,800	$389,617				
Soft and peelers			262,900	21,891				
Squid							73,000	1,120
Total	80,600	5,648	16,313,700	411,508	1,900	75	7,158,400	198,622

Fisheries of Maryland, 1937—Continued

CATCH: By gear—Continued

Species	Fyke nets		Dip nets		Pots		Scrapes	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	17,300	$202						
Black bass	16,600	2,197						
Carp	19,100	1,065						
Catfish and bullheads	257,100	7,983			1,200	$60		
Crappie	2,100	141						
Croaker	1,000	20						
Eels, common	5,100	440			178,700	15,034		
Flounders	1,700	132						
Gizzard shad	5,100	180						
Mullet	100	4						
Pike or pickerel	25,700	3,691						
Shad			2,600	$340				
Squeteagues or "sea trout," gray	600	42						
Striped bass	8,000	747						
Suckers	2,100	120						
White perch	88,200	3,909						
Yellow perch	147,900	9,555						
Crabs:								
Hard			147,500	3,687				
Soft and peelers			701,000	64,575			1,487,900	$118,432
Total	597,700	30,428	851,100	68,602	179,900	15,094	1,487,900	118,432

Species	Dredges		Tongs		Rakes		By hand	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Clams, hard, public			54,400	$10,200	3,200	$600	6,400	$1,200
Oysters, market:								
Public, spring	658,200	$49,513	5,565,000	356,576				
Public, fall	2,829,100	210,810	10,106,900	692,758				
Private, spring	65,000	9,444	520,100	80,949				
Private, fall	363,300	51,972	622,100	67,452				
Terrapin, diamond-back							3,500	1,590
Turtle, snapper							5,000	350
Total	3,915,600	321,739	16,868,500	1,207,935	3,200	600	14,900	3,140

OPERATING UNITS: By counties

Item	Anne Arundel	Baltimore	Calvert	Caroline	Cecil	Charles	Dorchester	Harford
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	25	40	25			8	249	
On boats and shore:								
Regular	566	7	325	3	22	117	629	5
Casual	105	52	68	52	58	180	168	45
Total	696	99	418	55	80	305	1,046	50
Vessels:								
Motor:								
5 to 10 tons	9		4			1	9	
11 to 20 tons	1							
Total	10		4			1	9	
Net tonnage	68		26			7	56	
Sail:								
5 to 10 tons			2			1	38	
11 to 20 tons	1	3	1				5	
21 to 30 tons		3	1				3	
31 to 40 tons		1						
51 to 60 tons		1						
Total	1	8	4			1	46	
Net tonnage	19	195	54			9	437	
Total vessels	11	8	8			2	55	
Total net tonnage	87	195	80			16	493	

Fisheries of Maryland, 1937—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Anne Arundel	Baltimore	Calvert	Caroline	Cecil	Charles	Dorchester	Harford
Boats:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Motor	277	20	169	14	32	102	474	14
Other	168	37	116	20	21	34	76	15
Apparatus:								
Haul seines	31	3	6	4	15	18	3	6
Length, yards	3, 160	400	1, 235	1, 689	3, 580	3, 373	1, 060	1, 780
Gill nets:								
Anchor	3	4	-------	-------	80	-------	-------	-------
Square yards	955	1, 200	-------	-------	18, 745	-------	-------	-------
Drift	4	-------	-------	56	7	7	26	8
Square yards	2, 400	-------	-------	27, 836	12, 650	8, 065	22, 146	16, 500
Stake	14	42	-------	57	37	1, 071	145	137
Square yards	2, 156	3, 174	-------	2, 638	3, 071	88, 032	7, 018	14, 726
Lines:								
Trot with baits or snoods	88	20	63	-------	-------	68	552	-------
Baits or snoods	49, 800	10, 000	29, 200	-------	-------	68, 000	289, 200	-------
Trot with hooks	-------	-------	-------	2	1	-------	-------	-------
Hooks	-------	-------	-------	200	100	-------	-------	-------
Pound nets	25	6	5	11	26	25	104	14
Fyke nets	16	134	-------	25	950	35	5	273
Dip nets	125	20	124	-------	-------	-------	41	-------
Pots:								
Eel	432	435	24	15	1, 211	29	2, 247	271
Fish	-------	-------	-------	10	-------	-------	-------	-------
Dredges, oyster	2	16	8	-------	-------	4	92	-------
Yards at mouth	3	21	9	-------	-------	5	111	-------
Tongs, oyster	568	-------	385	-------	-------	178	737	-------

Item	Kent	Prince Georges	Queen Annes	St. Marys	Somerset	Talbot	Wicomico	Worcester
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	6	-------	2	5	399	55	6	-------
On boats and shore:								
Regular	333	4	333	507	597	494	197	139
Casual	133	21	207	215	173	78	155	134
Total	472	25	542	727	1, 169	627	358	273
Vessels:								
Motor, 5 to 10 tons	3	-------	1	-------	2	2	-------	-------
Net tonnage	19	-------	5	-------	11	10	-------	-------
Sail:								
5 to 10 tons	-------	-------	-------	-------	50	10	-------	-------
11 to 20 tons	-------	-------	-------	-------	15	-------	-------	-------
21 to 30 tons	-------	-------	-------	-------	8	-------	1	-------
31 to 40 tons	-------	-------	-------	1	3	-------	-------	-------
41 to 50 tons	-------	-------	-------	-------	2	-------	-------	-------
51 to 60 tons	-------	-------	-------	-------	1	-------	-------	-------
Total	-------	-------	-------	1	79	10	1	-------
Net tonnage	-------	-------	-------	32	1, 042	73	25	-------
Total vessels	3	-------	1	1	81	12	1	-------
Total net tonnage	19	-------	5	32	1, 053	83	25	-------
Boats:								
Motor	288	5	250	243	158	408	134	155
Other	50	12	38	243	619	70	49	120
Apparatus:								
Haul seines	16	7	7	8	5	2	1	-------
Length, yards	2, 675	910	1, 750	1, 790	50	450	500	-------
Gill nets:								
Anchor	330	-------	-------	-------	-------	-------	-------	-------
Square yards	37, 894	-------	-------	-------	-------	-------	-------	-------
Drift	22	2	-------	-------	10	15	58	20
Square yards	48, 666	2, 400	-------	-------	6, 265	9, 220	37, 500	5, 600
Stake	1, 070	2	11	-------	86	7	315	7
Square yards	115, 030	82	1, 482	-------	2, 044	470	10, 752	760

Fisheries of Maryland, 1937—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Kent	Prince Georges	Queen Annes	St. Marys	Somerset	Talbot	Wicomico	Worcester
Apparatus—Continued.								
Lines:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Hand	--------	--------	--------	--------	--------	--------	--------	100
Hooks	--------	--------	--------	--------	--------	--------	--------	120
Trot with baits or snoods	126	--------	76	137	134	202	5	115
Baits or snoods	100, 800	--------	45, 900	104, 400	92, 200	130, 750	4, 000	81, 500
Pound nets	26	--------	6	64	21	74	27	21
Fyke nets	220	84	29	--------	12	33	11	7
Dip nets	15	--------	32	158	309	31	--------	8
Pots, eel	780	45	2, 377	15	40	2, 660	15	--------
Scrapes	--------	--------	--------	--------	632	--------	--------	--------
Yards at mouth	--------	--------	--------	--------	632		--------	--------
Dredges, oyster	--------	--------	--------	2	202	20	2	58
Yards at mouth	--------	--------	--------	3	254	27	3	42
Tongs:								
Oyster	326	--------	499	571	223	459	277	29
Other	--------	--------	--------	--------	--------	--------	--------	77
Rakes	--------	--------	--------	--------	--------	--------	--------	29

CATCH: BY COUNTIES

Species	Anne Arundel		Baltimore		Calvert		Caroline	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	463, 200	$4, 822	11, 600	$233	108, 000	$851	20, 500	$404
Black bass	200	10	600	70	--------	--------	700	67
Bluefish	6, 700	410	--------	--------	200	16	--------	--------
Butterfish	200	16	--------	--------	--------	--------	--------	--------
Carp	4, 000	262	4, 700	159	1, 600	79	1, 600	106
Catfish and bullheads	17, 700	445	15, 300	638	4, 800	158	23, 300	627
Crappie	--------	--------	600	42	--------	--------	300	18
Croaker	207, 500	4, 231	--------	--------	84, 000	1, 260	5, 000	130
Eels, common	6, 600	435	13, 300	1, 319	1, 000	80	1, 200	50
Flounders	3, 600	132	400	20	100	5	--------	--------
Gizzard shad	15, 400	207	15, 800	228	1, 000	10	4, 300	126
Hickory shad	3, 200	38	--------	--------	1, 300	39	200	7
Menhaden	12, 000	120	--------	--------	--------	--------	--------	--------
Mullet	--------	--------	100	4	700	45	--------	--------
Pike or pickerel	500	85	2, 200	487	200	30	700	74
Shad	27, 200	2, 901	--------	--------	9, 900	1, 015	7, 100	1, 120
Spanish mackerel	6, 500	666	--------	--------	--------	--------	--------	--------
Spot	4, 300	129	200	4	1, 000	50	--------	--------
Squeteagues or "sea trout":								
Gray	364, 500	13, 073	2, 100	198	6, 000	280	2, 000	100
Spotted	--------	--------	--------	--------	100	10	--------	--------
Striped bass	410, 800	26, 716	23, 000	2, 457	39, 100	2, 786	129, 000	10, 964
Suckers	--------	--------	--------	--------	--------	--------	100	3
Sunfish	400	10	--------	--------	--------	--------	--------	--------
Tuna	100	8	--------	--------	--------	--------	--------	--------
White perch	13, 300	506	6, 100	352	1, 100	35	85, 400	2, 882
Yellow perch	4, 100	340	6, 900	524	1, 200	122	13, 000	749
Crabs:								
Hard	817, 600	18, 190	100, 000	3, 000	600, 000	14, 000	--------	--------
Soft and peelers	55, 900	5, 913	11, 000	1, 800	51, 600	5, 702	--------	--------
Oysters, market:								
Public, spring	1, 123, 500	74, 901	37, 200	3, 100	189, 300	13, 325	--------	--------
Public, fall	1, 313, 600	97, 956	154, 000	11, 565	459, 200	34, 233	--------	--------
Private, spring	--------	--------	--------	--------	78, 000	6, 500	--------	--------
Private, fall	--------	--------	--------	--------	132, 000	11, 000	--------	--------
Total	4, 882, 600	252, 522	405, 100	26, 200	1, 771, 400	91, 631	294, 400	17, 427

Fisheries of Maryland, 1937—Continued

CATCH: BY COUNTIES—Continued

Species	Cecil		Charles		Dorchester		Hartford	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	230, 900	$2, 241	10, 000	$100	377, 300	$4, 882	306, 100	$3, 023
Black bass	31, 400	4, 021	1, 500	140	600	57	4, 900	412
Bluefish	-------	-------	-------	-------	4, 500	417	-------	-------
Butterfish	-------	-------	-------	-------	3, 000	144	-------	-------
Carp	46, 000	3, 160	33, 700	1, 748	4, 800	165	37, 600	2, 921
Catfish and bullheads	116, 700	3, 334	105, 700	2, 353	18, 800	623	36, 000	1, 105
Crappie	400	16	-------	-------	200	16	100	3
Croaker	-------	-------	1, 800	90	106, 500	2, 098	-------	-------
Drum:								
Black	-------	-------	-------	-------	600	6	-------	-------
Red or redfish	-------	-------	-------	-------	600	6	-------	-------
Eels, common	12, 400	1, 063	1, 100	108	84, 800	7, 498	5, 800	580
Flounders	-------	-------	-------	-------	10, 200	528	-------	-------
Gizzard shad	2, 500	38	17, 600	297	24, 300	312	800	4
Harvestfish or "starfish"	-------	-------	-------	-------	800	36	-------	-------
Hickory shad	1, 500	51	100	2	3, 200	77	800	22
King whiting or "kingfish"	-------	-------	-------	-------	200	6	-------	-------
Mullet	100	2	-------	-------	-------	-------	-------	-------
Pike or pickerel	17, 400	2, 413	2, 000	325	400	34	11, 000	2, 187
Shad	18, 400	1, 800	11, 500	1, 326	65, 000	5, 321	16, 300	1, 583
Spanish mackerel	-------	-------	-------	-------	500	50	-------	-------
Spot	-------	-------	-------	-------	2, 200	70	-------	-------
Squeteagues or "sea trout":								
Gray	-------	-------	300	15	10, 600	345	-------	-------
Spotted	-------	-------	-------	-------	3, 700	228	-------	-------
Striped bass	21, 300	1, 768	109, 000	7, 197	183, 000	16, 320	48, 600	3, 887
Suckers	300	10	-------	-------	-------	-------	900	46
Sunfish	-------	-------	-------	-------	500	20	600	19
White perch	31, 900	1, 343	21, 600	1, 055	50, 200	2, 063	8, 400	488
Yellow perch	66, 700	4, 283	6, 000	386	2, 800	172	17, 300	1, 073
Crabs:								
Hard	-------	-------	557, 900	22, 428	6, 856, 900	137, 138	-------	-------
Soft and peelers	-------	-------	6, 700	1, 097	171, 000	13, 686	-------	-------
Oysters, market:								
Public, spring	-------	-------	142, 200	12, 178	1, 012, 100	72, 825	-------	-------
Public, fall	-------	-------	243, 100	20, 836	1, 970, 900	144, 547	-------	-------
Private, spring	-------	-------	41, 400	3. 348	-------	-------	-------	-------
Private, fall	-------	-------	172, 300	13, 132	-------	-------	-------	-------
Terrapin, diamond-back	-------	-------	-------	-------	1, 300	840	-------	-------
Turtle, snapper	5, 000	350	-------	-------	-------	-------	-------	-------
Total	602, 900	25, 893	1, 485, 500	88, 161	10, 971, 500	410, 530	495, 200	17, 353

Species	Kent		Prince Georges		Queen Annes		St. Marys	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	99, 300	$936	-------	-------	5, 100	$64	528, 800	$5, 703
Black bass	1, 000	84	500	$48	-------	-------	-------	-------
Bluefish	1, 600	128	-------	-------	-------	-------	2, 000	146
Butterfish	-------	-------	-------	-------	-------	-------	1, 700	174
Carp	8, 200	297	74, 400	4, 371	8, 300	358	8, 300	290
Catfish and bullheads	34, 000	1, 008	58, 100	1, 965	20, 000	740	11, 400	308
Crappie	-------	-------	1, 000	74	-------	-------	-------	-------
Croaker	50, 400	1, 104	100	7	11, 300	287	44, 400	1, 097
Drum:								
Black	-------	-------	-------	-------	-------	-------	200	2
Red or redfish	-------	-------	-------	-------	-------	-------	100	3
Eels, common	10, 400	852	1, 300	112	17, 800	1, 354	1, 100	88
Flounders	400	22	-------	-------	-------	-------	2, 900	155
Gizzard shad	1, 000	20	1, 100	42	4, 000	160	13, 000	156
Hickory shad	800	25	100	3	-------	-------	7, 000	138
Menhaden	-------	-------	-------	-------	-------	-------	3, 000	50
Pike or pickerel	2, 900	412	100	15	-------	-------	2, 000	240
Shad	9, 700	1, 139	7, 500	530	-------	-------	65, 900	6, 057
Spanish mackerel	1, 300	109	-------	-------	-------	-------	2, 400	263
Spot	6, 800	357	-------	-------	-------	-------	2, 500	131
Squeteagues or "sea trout":								
Gray	123, 500	5, 391	200	23	500	20	28, 100	1, 262
Spotted	200	15	-------	-------	-------	-------	400	43
Striped bass	568, 600	48, 076	700	115	14, 900	1, 178	194, 700	15, 032
Suckers	-------	-------	1, 000	74	-------	-------	500	10

Fisheries of Maryland, 1937—Continued

CATCH: BY COUNTIES—Continued

Species	Kent		Prince Georges		Queen Annes		St. Marys	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
White perch	30,700	$1,147	1,600	$169	8,100	$379	7,700	$383
Yellow perch	19,400	1,076	200	20	18,400	1,125	14,100	568
Crabs:								
Hard	281,000	9,835	----	----	433,500	15,173	1,347,300	33,232
Soft and peelers	11,100	2,243	----	----	8,500	1,100	74,500	9,080
Oysters, market:								
Public, spring	388,900	23,336	----	----	734,200	36,713	666,200	45,859
Public, fall	828,700	57,831	----	----	1,533,400	89,460	1,354,500	101,486
Private, spring	----	----	----	----	----	----	63,000	5,250
Private, fall	----	----	----	----	----	----	81,000	6,750
Total	2,479,900	155,443	147,900	7,568	2,818,000	148,111	4,528,700	233,956

Species	Somerset		Talbot		Wicomico		Worcester	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	32,400	$468	1,570,900	$14,894	44,800	$851	10,200	$106
Bluefish	6,500	650	400	42	----	----	59,000	4,900
Bonito	----	----	----	----	----	----	16,500	775
Butterfish	2,500	91	100	10	9,000	360	75,000	3,527
Carp	600	12	4,900	241	800	38	----	----
Catfish and bullheads	5,800	266	20,700	601	12,100	384	----	----
Crappie	----	----	----	----	100	3	----	----
Croaker	61,600	784	52,400	802	62,800	853	295,100	5,428
Drum:								
Black	----	----	----	----	----	----	30,000	350
Red or redfish	1,500	40	----	----	----	----	----	----
Eels:								
Common	2,300	115	26,400	1,866	4,300	428	1,500	120
Conger	----	----	----	----	----	----	400	8
Flounders	2,700	257	100	12	1,500	144	8,100	454
Gizzard shad	2,300	23	----	----	9,700	159	----	----
Hake	----	----	----	----	----	----	2,500	40
Harvestfish or "starfish"	----	----	----	----	----	----	2,000	40
Hickory shad	300	15	6,600	158	100	2	3,000	60
Hogchoker	11,700	351	----	----	6,000	120	----	----
King whiting or "kingfish"	----	----	----	----	600	60	6,500	335
Mackerel	----	----	----	----	----	----	2,000	120
Mullet	----	----	----	----	----	----	2,000	80
Pike or pickerel	----	----	500	75	----	----	----	----
Scup	----	----	----	----	----	----	26,000	590
Sea bass	100	4	----	----	----	----	15,000	900
Shad	13,800	1,368	107,700	10,245	30,500	3,638	14,300	1,495
Spanish mackerel	----	----	600	65	----	----	22,500	1,225
Spot	----	----	600	31	5,000	250	5,000	150
Squeteagues or "sea trout":								
Gray	5,000	195	49,500	2,285	41,300	1,408	456,200	9,992
Spotted	----	----	----	----	3,000	230	----	----
Striped bass	15,500	986	132,200	9,730	115,900	9,162	5,000	435
Tautog	----	----	----	----	----	----	200	10
White perch	8,700	448	10,100	651	10,400	676	1,400	91
Yellow perch	----	----	15,800	1,272	1,300	88	----	----
Crabs:								
Hard	2,000,700	54,757	1,805,800	54,174	25,000	500	1,372,600	30,877
Soft and peelers	2,035,700	162,257	13,600	2,087	1,200	110	73,300	6,121
Clams, hard, public	----	----	----	----	----	----	64,000	12,000
Oysters, market:								
Public, spring	858,000	64,308	912,100	43,578	159,500	15,966	----	----
Public, fall	2,372,000	168,719	1,564,800	91,300	1,141,800	85,635	----	----
Private, spring	54,000	4,050	----	----	24,000	1,800	324,700	69,445
Private, fall	179,500	13,463	----	----	108,000	8,100	312,600	66,979
Squid	----	----	----	----	----	----	73,000	1,120
Terrapin, diamond-back	2,200	750	----	----	----	----	----	----
Total	7,675,400	474,377	6,295,800	234,119	1,818,700	130,965	3,279,600	217,773

VIRGINIA

Fisheries of Virginia, 1937

OPERATING UNITS: BY GEAR

Item	Purse seines, menhaden	Haul seines	Gill nets			Lines, hand
			Anchor	Drift	Stake	
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	1, 205					
On boats and shore:						
Regular		270	6	16	89	11
Casual		220		336	193	24
Total	1, 205	490	6	352	282	35
Vessels:						
Steam:						
41 to 50 tons	1					
61 to 70 tons	1					
71 to 80 tons	2					
81 to 90 tons	4					
91 to 100 tons	5					
101 to 110 tons	3					
131 to 140 tons	2					
141 to 150 tons	1					
151 to 160 tons	2					
161 to 170 tons	1					
171 to 180 tons	2					
191 to 200 tons	1					
Total	25					
Net tonnage	2, 833					
Motor:						
11 to 20 tons	1					
21 to 30 tons	1					
31 to 40 tons	1					
61 to 70 tons	1					
71 to 80 tons	3					
101 to 110 tons	1					
111 to 120 tons	1					
121 to 130 tons	1					
131 to 140 tons	1					
Total	11					
Net tonnage	844					
Total vessels	36					
Total net tonnage	3, 667					
Boats:						
Motor		83	3	37	109	20
Other		159		193	169	3
Accessory boats	105					
Apparatus:						
Number	36	139	3	223	5, 963	93
Length, yards	11, 050	53, 876				
Square yards			3, 600	201, 605	135, 732	
Hooks, baits, or snoods						161

Fisheries of Virginia, 1937—Continued

OPERATING UNITS: BY GEAR—Continued

Item	Lines—Continued		Pound nets	Crab pound nets	Stop nets	Fyke nets	Dip nets	Otter trawls
	Trot with baits or snoods	Trot with hooks						
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels								94
On boats and shore:								
Regular	1,479		1,531	69		60	695	
Casual	483	7	298	12	4	125	745	
Total	1,962	7	1,829	81	4	185	1,440	94
Vessels, motor:								
5 to 10 tons								6
11 to 20 tons								6
21 to 30 tons								3
31 to 40 tons								4
Total								19
Net tonnage								358
Boats:								
Motor	1,567	1	350	57	2	54	30	
Other	395	5	535	15	2	106	1,390	
Apparatus:								
Number	1,962	5	1,656	277	2	762	1,440	19
Square yards					1,300			
Yards at mouth								515
Hooks, baits, or snoods	1,023,610	2,550						

Item	Slat traps	Pots			Scrapes	Dredges		
		Crab	Eel	Fish		Crab	Oyster	Scallop
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels						308	112	4
On boats and shore:								
Regular		36	13	12	118			
Casual	2	23	15	21				
Total	2	59	28	33	118	308	112	4
Vessels, motor:								
5 to 10 tons						62	8	
11 to 20 tons						31	13	1
21 to 30 tons						6	2	
41 to 50 tons							2	
Total						99	25	1
Net tonnage						1,038	392	18
Boats:								
Motor		41	13	10	74			
Other	2	15	10	13				
Apparatus:								
Number	4	1,060	677	221	114	198	53	2
Yards at mouth					117	382	84	6

Fisheries of Virginia, 1937—Continued

OPERATING UNITS: BY GEAR—Continued

Item	Tongs		Rakes, oyster	Picks	By hand		Total, exclusive of duplication
	Oyster	Other			Oyster	Other	
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels							1, 666
On boats and shore:							
Regular	2, 407	332	495	375	100	310	4, 851
Casual	680	36	20		25	75	3, 070
Total	3, 087	368	515	375	125	385	9, 587
Vessels:							
Steam:							
41 to 50 tons							1
61 to 70 tons							1
71 to 80 tons							2
81 to 90 tons							4
91 to 100 tons							5
101 to 110 tons							3
131 to 140 tons							2
141 to 150 tons							1
151 to 160 tons							2
161 to 170 tons							1
171 to 180 tons							2
191 to 200 tons							1
Total							25
Net tonnage							2, 833
Motor:							
5 to 10 tons							69
11 to 20 tons							43
21 to 30 tons							12
31 to 40 tons							5
41 to 50 tons							2
61 to 70 tons							1
71 to 80 tons							3
101 to 110 tons							1
111 to 120 tons							1
121 to 130 tons							1
131 to 140 tons							1
Total							139
Net tonnage							2, 469
Total vessels							164
Total net tonnage							5, 302
Boats:							
Motor	1, 500	113	66	15			3, 366
Other	271	199	423	310	50	75	3, 004
Accessory boats							105
Apparatus, number	2, 877	353	515	375			

CATCH: BY GEAR

Species	Purse seines		Haul seines		Gill nets			
					Anchor		Drift	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives			626, 800	$6, 570			4, 000	$51
Bluefish			135, 100	5, 739	600	$42	800	80
Bonito			400	17				
Butterfish			19, 900	267				
Cabio or crab eater			700	28				
Carp			244, 600	5, 158			1, 000	20
Catfish and bullheads			82, 700	2, 760				
Croaker			5, 154, 100	82, 690	65, 000	975	50, 000	2, 000
Drum, red or redfish			11, 900	230				
Eels, common			1, 800	95				
Flounders			34, 800	1, 529				
Gizzard shad			71, 000	795			3, 000	30
Harvestfish			13, 900	278				
Hickory shad			6, 500	124				
King whiting or "kingfish"			43, 900	1, 317				

Fisheries of Virginia, 1937—Continued

CATCH: BY GEAR—Continued

Species	Purse seines		Haul seines		Gill nets			
					Anchor		Drift	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Mackerel			1,700	$34				
Menhaden	119,763,000	$478,923						
Mullet			5,800	114				
Pompano			400	40				
Shad			9,500	947			136,300	$13,428
Skates			15,800	158				
Spanish mackerel			13,900	635				
Spot			1,180,000	22,646	18,000	$540		
Squeteagues or "sea trout:								
Gray			255,400	4,823			400	20
Spotted			130,600	6,476				
Striped bass			99,400	6,896			24,500	1,715
Sturgeon							400	60
Suckers			300	6				
White perch			27,900	801	600	24		
Yellow perch			10,800	502				
Crabs, soft and peelers			31,200	3,160				
Total	119,763,000	478,923	8,230,800	154,835	84,200	1,581	220,400	17,404

Species	Gill nets—Continued		Lines					
	Stake		Hand		Trot with baits or snoods		Trot with hooks	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	12,300	$213						
Bluefish			42,100	$4,437				
Bonito			100	8				
Catfish and bullheads							5,800	$152
Croaker	13,000	164	15,300	765				
Flounders			4,000	348				
Gizzard shad	5,000	50						
King whiting or "kingfish"			300	15				
Mackerel			200	20				
Mullet	2,000	60						
Scup			43,000	1,351				
Sea bass			70,400	2,112				
Shad	149,300	15,305						
Spanish mackerel			4,400	174				
Spot	9,500	143	1,700	34				
Squeteagues or "sea trout," gray	1,000	15	77,700	3.887				
Striped bass	202,600	16,185						
White perch	1,800	60						
Yellow perch	1,000	20						
Crabs:								
Hard					22,303,300	$376,404		
Soft and peelers					30,500	3,025		
Turtles, snapper			1,500	22				
Total	397,500	32,215	260,700	13,173	22,333,800	379,429	5,800	152

Species	Pound nets		Crab pound nets		Stop nets		Fyke nets	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	14,399,600	$140,713					17,900	$252
Bluefish	344,000	12,116						
Bonito	17,600	701						
Butterfish	1,866,000	26,576						
Cabio or crab eater	19,400	687						
Carp	66,500	1,303			25,400	$508	56,200	1,038
Catfish and bullheads	159,200	4,759			1,300	52	239,300	8,270
Croaker	25,133,300	347,634					30,700	522
Drum:								
Black	16,600	190						
Red or redfish	19,900	361					100	2
Eels, common	68,400	7,985					5,200	383
Flounders	313,100	13,085					1,600	48
Gizzard shad	138,000	1,405					15,600	171
Harvestfish	1,076,600	19,524						

Fisheries of Virginia, 1937—Continued

CATCH: BY GEAR—Continued

Species	Pound nets		Crab pound nets		Stop nets		Fyke nets	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Hickory shad	78, 100	$1, 622						
Hogfish	600	18						
King whiting or "kingfish"	29, 600	846						
Mackerel	98, 800	1, 977						
Menhaden	2, 202, 000	5, 981						
Mullet	3, 600	108						
Pike or pickerel							300	$30
Pompano	10, 700	948						
Scup	20, 300	408						
Sea bass	5, 100	126						
Shad	2, 782, 400	242, 490					8, 000	870
Sharks	2, 000	60						
Sheepshead	100	2						
Skates	600	3						
Spanish mackerel	787, 200	17, 198						
Spot	1, 702, 000	29, 938						
Squeteagues or "sea trout":								
Gray	11, 108, 000	195, 848					9, 800	197
Spotted	9, 900	563						
Striped bass	624, 100	35, 097					53, 900	2, 864
Sturgeon	5, 600	656						
Swellfish	6, 700	67						
White perch	98, 900	2, 625					58, 700	1, 572
Yellow perch	3, 600	171					61, 200	2, 830
Crabs:								
Hard	115, 000	2, 300	82, 500	$1, 468				
Soft and peelers			286, 800	29, 200				
Squid	85, 500	1, 641						
Total	63, 418, 600	1, 117, 732	369, 300	30, 668	26, 700	$560	558, 500	19, 049

Species	Dip nets		Otter trawls		Slat traps		Pots	
							Crab	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives			200	$2	3, 500	$70		
Bluefish			5, 900	773				
Bonito			100	6				
Butterfish			70, 500	1, 856				
Catfish and bullheads					1, 700	85		
Cod			900	17				
Croaker			2, 650, 300	63, 413				
Drum, red or redfish			11, 400	175				
Eels, conger			400	7				
Flounders			146, 500	10, 883				
Gizzard shad					6, 000	120		
Grayfish			5, 400	170				
Hake			500	10				
King whiting or "kingfish"			62, 000	2, 016				
Scup			1, 868, 100	29, 249				
Sea bass			122, 000	6, 348				
Sea robin			2, 800	44				
Shad			300	33				
Sharks			4, 200	147				
Snapper, red			100	4				
Spot			67, 300	1, 358				
Squeteagues or "sea trout":								
Gray			1, 154, 400	28, 452				
Spotted			100	3				
Sturgeon			6, 700	639				
Swellfish			1, 700	50				
Tautog			300	11				
Tomcod			100	1				
White perch			7, 400	98				
Whiting			17, 200	194				
Crabs:								
Hard	12, 000	$180					438, 000	$8, 260
Soft and peelers	1, 346, 500	125, 910					51, 500	5, 120
Shrimp			1, 700	120				
Squid			26, 400	460				
Total	1, 358, 500	126, 090	6, 234, 900	146, 539	11, 200	275	489, 500	13, 380

Fisheries of Virginia, 1937—Continued

CATCH: By gear—Continued

Species	Pots—Continued				Scrapes		Dredges	
	Eel		Fish					
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Catfish and bullheads	5,000	$300	112,100	$5,090				
Eels, common	43,600	2,366	6,500	355				
White perch			100	3				
Crabs:								
Hard					74,000	$1,480	4,902,700	$174,960
Soft and peelers					455,000	36,400		
Oysters, market:								
Private, spring							256,800	22,830
Private, fall							2,545,400	192,560
Scallops, sea							10,800	1,426
Total	48,600	2,666	118,700	5,448	529,000	37,880	7,715,700	391,776

Species	Tongs		Rakes		Picks		By hand	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Crabs, soft and peelers							273,800	$22,100
Clams:								
Hard, public	1,089,100	$173,742			277,000	$49,200	258,000	46,090
Hard, private	7,000	1,750						
Mussels, sea							27,700	788
Oysters, market:								
Public, spring	1,276,800	87,875					7,800	585
Public, fall	2,104,800	144,570						
Private, spring	1,320,000	94,150	750,000	$51,400			21,000	1,350
Private, fall	1,579,400	107,830	1,082,000	75,300			42,000	2,700
Total	7,377,100	609,917	1,832,000	126,700	277,000	49,200	630,300	73,613

OPERATING UNITS: By counties

Item	Accomac	Arlington	Caroline	Charles City	Chesterfield	Dinwiddie	Elizabeth City	Essex
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	32						97	
On boats and shore:								
Regular	1,005						138	47
Casual	264	56	4	89	39	6	14	44
Total	1,301	56	4	89	39	6	249	91
Vessels, motor:								
5 to 10 tons	1						9	
11 to 20 tons	1						10	
21 to 30 tons	1						3	
31 to 40 tons							1	
Total	3						23	
Net tonnage	47						320	
Boats:								
Motor	666	10		1	2		56	24
Other	611	22	2	60	20	4	25	22
Apparatus:								
Purse seines, menhaden	1							
Length, yards	280							
Haul seines	19	5		2	5			8
Length, yards	9,595	1,600		350	1,550			2,350
Gill nets:								
Drift	4	14	1	60	10	1		
Square yards	8,000	20,580	1,200	67,825	6,000	600		
Stake		20		20	65			5
Square yards		360		400	1,800			3,100
Lines:								
Hand	60							
Hooks	120							
Trot with baits or snoods	378						35	7
Baits or snoods	233,600						17,500	1,600

Fisheries of Virginia, 1937—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Accomac	Arlington	Caroline	Charles City	Chesterfield	Dinwiddie	Elizabeth City	Essex
Apparatus—Continued.	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Pound nets	203	--------	--------	--------	--------	--------	155	2
Fyke nets	9	28	2	17	3	--------	8	10
Dip nets	300	--------	--------	--------	--------	--------	--------	--------
Otter trawls	--------	--------	--------	--------	--------	--------	5	--------
Yards at mouth	--------	--------	--------	--------	--------	--------	143	--------
Slat traps	--------	--------	--------	--------	--------	4	--------	--------
Pots:								
Eel	--------	12	--------	--------	--------	5	--------	--------
Fish	--------	--------	--------	40	20	--------	--------	--------
Scrapes	108	--------	--------	--------	--------	--------	--------	--------
Yards at mouth	111	--------	--------	--------	--------	--------	--------	--------
Dredges:								
Crab	6	--------	--------	--------	--------	--------	30	--------
Yards at mouth	12	--------	--------	--------	--------	--------	58	--------
Oyster	--------	--------	--------	--------	--------	--------	16	--------
Yards at mouth	--------	--------	--------	--------	--------	--------	24	--------
Scallop	--------	--------	--------	--------	--------	--------	2	--------
Yards at mouth	--------	--------	--------	--------	--------	--------	6	--------
Tongs:								
Oyster	576	--------	--------	--------	--------	--------	--------	47
Other	197	--------	--------	--------	--------	--------	5	--------
Rakes, oyster	215	--------	--------	--------	--------	--------	--------	--------
Picks	175	--------	--------	--------	--------	--------	--------	--------

Item	Fairfax	Gloucester	Henrico	Isle of Wight	James City	King and Queen	King George	King William
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	--------	48	--------	--------	--------	--------	--------	--------
On boats and shore:								
Regular	--------	435	--------	298	11	--------	26	--------
Casual	38	57	27	75	34	34	80	71
Total	38	540	27	373	45	34	106	71
Vessels, motor:								
5 to 10 tons	--------	5	--------	--------	--------	--------	--------	--------
11 to 20 tons	--------	10	--------	--------	--------	--------	--------	--------
Total	--------	15	--------	--------	--------	--------	--------	--------
Net tonnage	--------	179	--------	--------	--------	--------	--------	--------
Boats:								
Motor	12	239	--------	178	11	9	38	11
Other	21	77	16	64	25	25	45	33
Apparatus:								
Haul seines	--------	1	6	--------	4	--------	5	1
Length, yards	--------	700	1, 100	--------	1, 200	--------	1, 460	90
Gill nets:								
Drift	11	--------	8	--------	18	6	10	39
Square yards	16, 400	--------	4, 700	--------	10, 800	2, 000	4, 400	22, 400
Stake	--------	150	--------	179	655	420	975	200
Square yards	--------	3, 432	--------	5, 370	17, 700	10, 400	17, 400	3, 440
Lines:								
Hand	--------	--------	--------	--------	25	--------	--------	--------
Hooks	--------	--------	--------	--------	25	--------	--------	--------
Trot with baits or snoods	--------	53	--------	74	--------	--------	21	10
Baits or snoods	--------	31, 800	--------	51, 800	--------	--------	10, 500	3, 000
Trot with hooks	--------	--------	2	--------	--------	--------	--------	--------
Hooks	--------	--------	500	--------	--------	--------	--------	--------
Pound nets	--------	93	--------	--------	8	--------	36	--------
Crab pound nets	--------	13	--------	--------	--------	--------	--------	--------
Fyke nets	208	28	--------	44	33	--------	75	--------
Pots:								
Crab	--------	60	--------	--------	--------	--------	--------	--------
Eel	50	--------	--------	--------	--------	--------	--------	--------
Fish	--------	--------	--------	--------	3	--------	15	--------
Dredges:								
Crab	--------	24	--------	--------	--------	--------	--------	--------
Yards at mouth	--------	46	--------	--------	--------	--------	--------	--------
Oyster	--------	6	--------	--------	--------	--------	--------	--------
Yards at mouth	--------	9	--------	--------	--------	--------	--------	--------
Tongs:								
Oyster	--------	303	--------	242	3	2	--------	9
Other	--------	37	--------	--------	--------	--------	--------	--------

Fisheries of Virginia, 1937—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Lancaster	Mathews	Middlesex	Nansemond	New Kent	Norfolk	Northampton	Northumberland
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	421	58	9	--------	--------	46	4	770
On boats and shore:								
Regular	434	384	299	121	4	69	541	463
Casual	482	302	182	13	30	42	103	442
Total	1, 337	744	490	134	34	157	648	1, 675
Vessels:								
Steam:								
41 to 50 tons	--------	--------	--------	--------	--------	--------	--------	1
61 to 70 tons	1	--------	--------	--------	--------	--------	--------	--------
71 to 80 tons	1	--------	--------	--------	--------	--------	--------	1
81 to 90 tons	1	--------	--------	--------	--------	--------	--------	3
91 to 100 tons	3	--------	--------	--------	--------	--------	--------	2
101 to 110 tons	--------	--------	--------	--------	--------	--------	--------	3
131 to 140 tons	1	--------	--------	--------	--------	--------	--------	1
141 to 150 tons	1	--------	--------	--------	--------	--------	--------	--------
151 to 160 tons	1	--------	--------	--------	--------	--------	--------	1
161 to 170 tons	--------	--------	--------	--------	--------	--------	--------	1
171 to 180 tons	--------	--------	--------	--------	--------	--------	--------	2
191 to 200 tons	--------	--------	--------	--------	--------	--------	--------	1
Total	9	--------	--------	--------	--------	--------	--------	16
Net tonnage	956	--------	--------	--------	--------	--------	--------	1, 877
Motor:								
5 to 10 tons	1	7	1	--------	--------	1	1	--------
11 to 20 tons	1	7	2	--------	--------	2	1	--------
21 to 30 tons	1	4	--------	--------	--------	1	--------	1
31 to 40 tons	--------	--------	--------	--------	--------	1	--------	1
41 to 50 tons	--------	--------	--------	--------	--------	2	--------	--------
61 to 70 tons	1	--------	--------	--------	--------	--------	--------	--------
71 to 80 tons	3	--------	--------	--------	--------	--------	--------	--------
101 to 110 tons	--------	--------	--------	--------	--------	--------	--------	1
111 to 120 tons	--------	--------	--------	--------	--------	--------	--------	1
121 to 130 tons	--------	--------	--------	--------	--------	--------	--------	1
131 to 140 tons	--------	--------	--------	--------	--------	--------	--------	1
Total	7	18	3	--------	--------	7	2	6
Net tonnage	343	247	43	--------	--------	185	18	536
Total vessels	16	18	3	--------	--------	7	2	22
Total net tonnage	1, 299	247	43	--------	--------	185	18	2, 413
Boats:								
Motor	333	199	293	54	2	37	264	438
Other	370	224	108	28	27	40	247	580
Accessory boats	39	--------	--------	--------	--------	--------	--------	66
Apparatus:								
Purse seines, menhaden	13	--------	--------	--------	--------	--------	--------	22
Length, yards	3, 970	--------	--------	--------	--------	--------	--------	6, 800
Haul seines	8	3	3	--------	1	4	4	10
Length, yards	3, 200	2, 800	2, 800	--------	225	1, 500	1, 800	510
Gill nets:								
Drift	--------	--------	--------	--------	19	--------	--------	--------
Square yards	--------	--------	--------	--------	16, 100	--------	--------	--------
Stake	--------	100	--------	135	120	--------	--------	--------
Square yards	--------	3, 000	--------	4, 050	3, 300	--------	--------	--------
Lines:								
Hand	--------	--------	--------	--------	--------	--------	8	--------
Hooks	--------	--------	--------	--------	--------	--------	16	--------
Trot with baits or snoods	335	92	68	25	2	57	171	282
Baits or snoods	167, 500	46, 000	34, 000	12, 500	600	17, 100	78, 660	141, 000
Trot with hooks	--------	--------	--------	--------	1	--------	--------	--------
Hooks	--------	--------	--------	--------	50	--------	--------	--------
Pound nets	162	399	13	--------	--------	31	99	269
Crab pound nets	30	51	13	--------	--------	--------	--------	90
Fyke nets	--------	--------	--------	41	16	--------	--------	--------
Dip nets	330	75	85	--------	--------	--------	170	430
Otter trawls	--------	1	--------	--------	--------	2	--------	--------
Yards at mouth	--------	30	--------	--------	--------	60	--------	--------
Pots:								
Crab	--------	--------	--------	--------	--------	--------	--------	1, 000
Eel	--------	--------	--------	--------	15	--------	--------	40
Fish	--------	--------	--------	--------	14	--------	--------	--------

Fisheries of Virginia, 1937—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Lancaster	Mathews	Middlesex	Nansemond	New Kent	Norfolk	Northampton	Northumberland
Apparatus—Continued.	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Scrapes	-------	-------	-------	-------	-------	-------	6	-------
Yards at mouth	-------	-------	-------	-------	-------	-------	6	-------
Dredges:								
Crab	2	34	4	-------	-------	2	2	-------
Yards at mouth	3	66	8	-------	-------	4	4	-------
Oyster	4	4	2	-------	-------	14	1	-------
Yards at mouth	5	6	3	-------	-------	27	1	-------
Tongs:								
Oyster	309	73	378	100	-------	-------	193	169
Other	-------	12	-------	-------	-------	-------	58	-------
Rakes, oyster	-------	-------	-------	-------	-------	-------	300	-------
Picks	-------	-------	-------	-------	-------	-------	200	-------

Item	Prince George	Princess Anne	Prince William	Richmond	Stafford	Surry	Warwick	Westmoreland	York
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	-------	-------	-------	-------	-------	-------	8	-------	173
On boats and shore:									
Regular	-------	32	-------	46	26	6	91	201	174
Casual	33	69	48	60	30	7	10	263	22
Total	33	101	48	106	56	13	109	464	369
Vessels, motor:									
5 to 10 tons	-------	-------	-------	-------	-------	-------	1	-------	42
11 to 20 tons	-------	-------	-------	-------	-------	-------	1	-------	8
21 to 30 tons	-------	-------	-------	-------	-------	-------	-------	-------	1
31 to 40 tons	-------	-------	-------	-------	-------	-------	-------	-------	2
Total	-------	-------	-------	-------	-------	-------	2	-------	53
Net tonnage	-------	-------	-------	-------	-------	-------	28	-------	523
Boats:									
Motor	4	34	12	21	15	5	42	239	117
Other	17	28	19	35	32	5	16	110	46
Apparatus:									
Haul seines	3	10	5	1	11	2	-------	4	14
Length, yards	671	2, 250	950	375	2, 400	700	-------	1, 200	12, 500
Gill nets:									
Anchor	-------	-------	-------	-------	-------	-------	-------	-------	3
Square yards	-------	-------	-------	-------	-------	-------	-------	-------	3, 600
Drift	14	-------	8	-------	-------	-------	-------	-------	-------
Square yards	11, 500	-------	9, 100	-------	-------	-------	-------	-------	-------
Stake	-------	-------	414	720	1, 020	240	500	25	-------
Square yards	-------	-------	8, 180	10, 800	20, 400	7, 200	15, 000	400	-------
Lines:									
Trot with baits or snoods	-------	41	1	12	4	-------	12	228	54
Baits or snoods	-------	14, 350	300	3, 600	1, 600	-------	4, 800	114, 000	37, 800
Trot with hooks	-------	-------	2	-------	-------	-------	-------	-------	-------
Hooks	-------	-------	2, 000	-------	-------	-------	-------	-------	-------
Pound nets	-------	7	-------	33	13	-------	42	58	33
Crab pound nets	-------	-------	-------	-------	-------	-------	-------	80	-------
Stop nets	2	-------	-------	-------	-------	-------	-------	-------	-------
Square yards	1, 300	-------	-------	-------	-------	-------	-------	-------	-------
Fyke nets	14	-------	105	8	56	22	20	8	7
Dip nets	-------	-------	-------	-------	-------	-------	-------	50	-------
Otter trawls	-------	-------	-------	-------	-------	-------	1	-------	10
Yards at mouth	-------	-------	-------	-------	-------	-------	25	-------	257
Pots:									
Eel	-------	-------	-------	-------	210	-------	100	230	-------
Fish	55	-------	-------	-------	-------	29	60	-------	-------
Dredges:									
Crab	-------	-------	-------	-------	-------	-------	2	-------	92
Yards at mouth	-------	-------	-------	-------	-------	-------	4	-------	177
Oyster	-------	-------	-------	-------	-------	-------	-------	-------	6
Yards at mouth	-------	-------	-------	-------	-------	-------	-------	-------	9
Tongs:									
Oyster	-------	4	-------	34	-------	-------	60	258	117
Other	-------	4	-------	-------	-------	-------	30	-------	10

Fisheries of Virginia, 1937—Continued

CATCH: BY COUNTIES

Species	Accomac		Arlington		Caroline		Charles City	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	1, 327, 900	$10, 821	------	------	------	------	1, 500	$30
Bluefish	64, 200	5, 913	------	------	------	------	------	------
Bonito	4, 300	216	------	------	------	------	------	------
Butterfish	227, 800	4, 556	------	------	------	------	------	------
Carp	------	------	79, 000	$1, 580	100	$3	18, 200	367
Catfish and bullheads	------	------	9, 500	285	500	18	126, 200	6, 230
Croaker	2, 565, 700	39, 103	------	------	------	------	------	------
Drum:								
Black	9, 200	120	------	------	------	------	------	------
Red or redfish	10, 100	237	------	------	------	------	------	------
Eels, common	20, 400	2, 719	1, 600	80	------	------	3, 500	175
Flounders	36, 600	2, 228	------	------	------	------	------	------
Gizzard shad	------	------	------	------	------	------	5, 100	75
Harvestfish	4, 000	80	------	------	------	------	------	------
Hickory shad	800	14	------	------	------	------	400	16
King whiting or "kingfish"	3, 600	112	------	------	------	------	------	------
Menhaden	631, 000	2, 417	------	------	------	------	------	------
Scup	56, 200	1, 541	------	------	------	------	------	------
Sea bass	67, 200	2, 016	------	------	------	------	------	------
Shad	100, 000	9, 194	5, 800	633	200	25	33, 000	2, 554
Sharks	2, 000	60	------	------	------	------	------	------
Skates	600	3	------	------	------	------	------	------
Spanish mackerel	15, 500	471	------	------	------	------	------	------
Spot	312, 500	6, 150	------	------	------	------	------	------
Squeteagues or "sea trout":								
Gray	1, 485, 500	37, 214	------	------	------	------	------	------
Spotted	16, 800	840	------	------	------	------	------	------
Striped bass	58, 800	2, 940	2, 200	198	------	------	8, 800	440
Sturgeon	200	30	------	------	------	------	100	15
Suckers	------	------	300	6	------	------	------	------
White perch	3, 700	74	1, 800	36	300	18	3, 900	195
Yellow perch	------	------	1, 500	60	------	------	800	40
Crabs:								
Hard	4, 313, 500	78, 561	------	------	------	------	------	------
Soft and peelers	1, 075, 600	86, 040	------	------	------	------	------	------
Clams, hard, public	673, 500	122, 065	------	------	------	------	------	------
Mussels, sea	27, 700	788	------	------	------	------	------	------
Oysters, market:								
Public, spring	129, 600	9, 970	------	------	------	------	------	------
Public, fall	720, 000	50, 050	------	------	------	------	------	------
Private, spring	276, 000	21, 200	------	------	------	------	------	------
Private, fall	488, 400	37, 380	------	------	------	------	------	------
Squid	13, 800	207	------	------	------	------	------	------
Total	14, 742, 700	535, 330	101, 700	2, 878	1, 100	64	201, 500	10, 137

Species	Chesterfield		Dinwiddie		Elizabeth City		Essex	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	18, 200	$273	3, 500	$70	653, 800	$6, 538	9, 000	$180
Bluefish	------	------	------	------	74, 100	2, 310	------	------
Bonito	------	------	------	------	1, 200	50	------	------
Butterfish	------	------	------	------	164, 200	2, 759	------	------
Cabio or crab eater	------	------	------	------	5, 000	200	------	------
Carp	19, 300	712	------	------	------	------	6, 600	198
Catfish and bullheads	10, 100	504	6, 700	385	500	15	4, 000	200
Cod	------	------	------	------	200	4	------	------
Croaker	------	------	------	------	3, 928, 500	63, 005	------	------
Drum:								
Black	------	------	------	------	3, 900	39	------	------
Red or redfish	------	------	------	------	6, 900	77	------	------
Eels:								
Common	200	16	300	18	1, 000	50	1, 400	70
Conger	------	------	------	------	200	3	------	------
Flounders	------	------	------	------	88, 800	5, 045	------	------
Gizzard shad	1, 500	15	6, 000	120	18, 300	208	11, 900	119
Hake	------	------	------	------	100	2	------	------
Harvestfish	------	------	------	------	269, 200	4, 038	------	------
Hickory shad	2, 200	33	------	------	16, 100	322	------	------
King whiting or "kingfish"	------	------	------	------	20, 900	670	------	------
Pompano	------	------	------	------	5, 600	560	------	------

Fisheries of Virginia, 1937—Continued

CATCH: BY COUNTIES—Continued

Species	Chesterfield		Dinwiddie		Elizabeth City		Essex	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Scup					773,000	$11,552		
Sea bass					55,400	2,984		
Sea robbin					200	3		
Shad	7,500	$771	200	$24	259,500	22,148	1,400	$168
Sharks					2,400	81		
Spanish mackerel					106,400	2,168		
Spot					249,800	4,939		
Squeteagues or "sea trout," gray					1,863,300	29,922		
Striped bass	100	7			82,200	5,310	1,200	120
Sturgeon	300	45			5,900	564		
Swellfish					5,800	58		
Tautog					100	2		
White perch	1,400	42			12,200	244	7,600	380
Whiting					1,600	22		
Yellow perch	200	8					200	14
Crabs, hard					1,165,400	33,728	24,500	735
Clams, hard, public					6,000	1,000		
Oysters, market:								
Public, spring							24,000	1,800
Public, fall							36,000	2,700
Private, spring					23,900	2,642	60,000	4,500
Private, fall					760,900	59,039	72,000	5,400
Scallops, sea					10,800	1,426		
Squid					11,600	170		
Total	61,000	2,426	16,700	617	10,654,900	263,897	259,800	16,584

Species	Fairfax		Gloucester		Henrico		Isle of Wight	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives			320,000	$3,200	1,100	$13	5,800	$87
Bluefish			19,600	774				
Butterfish			213,200	2,650				
Cabio or crab eater			2,600	104				
Carp	5,000	$100			22,500	345	8,000	120
Catfish and bullheads	65,300	1,959	800	24	5,000	132	17,300	346
Croaker			5,567,100	83,506			12,500	247
Drum								
Black			1,000	10				
Red or redfish			500	10				
Eels, common	4,500	225						
Flounders			28,400	1,126				
Gizzard shad			1,200	12	7,500	75	2,000	20
Hickory shad			2,000	25				
King whiting or "kingfish"			1,500	45				
Mullet			600	18				
Pompano			500	50				
Shad	23,400	2,575	98,600	8,874	7,300	568	32,200	3,540
Spanish mackerel			40,000	900				
Spot			193,300	3,866				
Squeteagues or "sea trout":								
Gray			874,900	13,126			2,000	40
Spotted			1,000	50				
Striped bass	3,000	270	14,200	710	4,300	301	12,400	620
White perch	15,600	312	4,500	135	1,100	33		
Yellow perch	26,800	1,340					5,400	118
Crabs:								
Hard			1,179,900	31,073			600,000	12,000
Soft and peelers			11,300	900				
Clams, hard, public			652,700	97,905				
Oysters, market:								
Public, spring			132,000	8,800			57,000	3,840
Public, fall			84,000	5,600			84,000	5,600
Private, spring			150,000	10,000			132,000	9,900
Private, fall			210,000	14,000			48,000	3,600
Total	143,600	6,781	9,805,400	287,493	48,800	1,467	1,018,600	40,078

Fisheries of Virginia, 1937—Continued

CATCH: BY COUNTIES—Continued

Species	James City		King and Queen		King George		King William	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	------	------	300	$6	4,700	$47	9,200	$94
Carp	22,000	$465	------	------	27,800	556	------	------
Catfish and bullheads	39,800	1,154	------	------	53,200	1,584	100	4
Eels, common	1,200	42	------	------	4,100	211	------	------
Gizzard shad	13,000	170	------	------	56,900	569	------	------
Hickory shad	------	------	------	------	------	------	100	2
Pike or pickerel	------	------	------	------	300	30	------	------
Shad	43,800	4,533	25,600	2,816	19,300	1,600	15,700	1,767
Squeteagues or "sea trout," gray	------	------	------	------	1,300	26	------	------
Striped bass	15,100	756	------	------	93,100	7,447	800	64
White perch	3,200	97	------	------	18,300	525	------	------
Yellow perch	300	15	------	------	8,300	332	------	------
Crabs, hard	------	------	------	------	160,000	4,000	70,000	1,400
Oysters, market:								
Public, spring	1,200	80	------	------	------	------	6,000	400
Public, fall	4,800	320	3,000	200	------	------	9,000	600
Turtles, snapper	1,500	22	------	------	------	------	------	------
Total	145,900	7,654	28,900	3,022	447,300	16,927	110,900	4,331

Species	Lancaster		Mathews		Middlesex		Nansemond	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	1,852,600	$18,526	3,311,200	$33,111	2,100	$21	------	------
Bluefish	17,400	522	116,600	3,498	22,100	1,326	------	------
Bonito	------	------	7,100	213	------	------	------	------
Butterfish	62,600	1,252	263,100	3,950	------	------	------	------
Cabio or crab eater	------	------	10,000	300	------	------	------	------
Carp	600	9	------	------	23,500	320	------	------
Catfish and bullheads	------	------	------	------	5,900	148	------	------
Croaker	530,500	7,957	11,505,300	143,846	595,900	14,939	10,000	$150
Drum:								
Black	------	------	600	5	------	------	------	------
Red or redfish	------	------	1,200	12	------	------	------	------
Eels, common	500	40	------	------	100	10	------	------
Flounders	5,900	177	67,800	2,894	2,900	201	------	------
Gizzard shad	5,500	55	2,800	28	1,400	14	5,200	52
Harvestfish	------	------	112,300	1,685	------	------	------	------
Hickory shad	2,000	40	15,300	306	------	------	------	------
Hogfish	------	------	600	18	------	------	------	------
King whiting or "kingfish"	------	------	2,600	78	2,300	69	------	------
Menhaden	52,770,000	210,323	1,188,000	3,000	------	------	------	------
Mullet	------	------	4,000	120	------	------	------	------
Scup	------	------	35,600	373	------	------	------	------
Sea bass	------	------	1,000	50	------	------	------	------
Shad	338,800	32,676	1,183,000	102,361	400	60	2,100	227
Skates	------	------	------	------	15,800	158	------	------
Spanish mackerel	8,500	255	365,500	7,310	------	------	------	------
Spot	70,200	1,404	619,000	9,286	44,000	880	------	------
Squeteagues or "sea trout":								
Gray	226,300	4,546	2,737,000	41,077	17,800	356	2,400	48
Spotted	5,500	275	20,200	1,212	10,500	735	------	------
Striped bass	50,000	3,185	35,600	1,780	34,200	2,047	5,000	250
Sturgeon	------	------	2,100	131	------	------	------	------
White perch	2,600	39	11,800	354	4,800	212	------	------
Whiting	------	------	1,200	12	------	------	------	------
Yellow perch	------	------	------	------	------	------	2,100	42
Crabs:								
Hard	3,420,000	52,500	1,719,100	44,743	1,251,700	23,511	87,500	1,750
Soft and peelers	236,000	28,600	92,500	9,250	103,200	10,865	------	------
Clams, hard, public	------	------	4,000	800	------	------	------	------
Oysters, market:								
Public, spring	222,000	14,800	10,800	720	318,000	21,200	5,000	400
Public, fall	330,000	22,000	6,000	400	246,000	16,400	5,000	400
Private, spring	258,000	20,400	43,100	3,180	228,000	15,200	75,000	6,000
Private, fall	342,000	22,800	119,400	8,603	186,000	12,400	75,000	6,000
Squid	------	------	1,900	39	------	------	------	------
Total	60,757,500	442,431	23,617,300	424,745	3,116,600	121,072	274,300	15,319

Fisheries of Virginia, 1937—Continued

CATCH: BY COUNTIES—Continued

Species	New Kent		Norfolk		Northampton		Northumberland	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	41,700	$637	73,000	$730	307,600	$3,076	6,630,900	$66,309
Bluefish			16,900	1,379	41,000	1,193	19,100	762
Bonito			2,600	130	500	30	400	36
Butterfish			309,700	3,511	183,000	3,660	14,800	296
Cabio or crab eater					1,100	55		
Carp	800	12					16,500	483
Catfish and bullheads	22,700	895					200	10
Croaker			1,479,100	32,573	1,092,300	16,275	533,000	7,429
Drum:								
Black					900	9		
Red or redfish			3,100	76	3,200	49	4,500	50
Eels:								
Common	1,300	92			28,500	4,275	8,600	522
Conger			200	4				
Flounders	100	8	37,500	2,639	109,700	4,412	17,300	581
Gizzard shad	8,000	80					9,700	97
Grayfish			5,400	170				
Hake			300	7				
Harvestfish			11,500	230	649,000	12,980	5,000	100
Hickory shad			8,500	170			26,800	536
King whiting or "kingfish"			19,800	644	5,400	217		
Mackerel					98,600	1,988		
Menhaden					5,000	49	67,321,000	268,915
Mullet			1,000	30	4,000	60		
Pompano			300	36	300	30		
Scup			604,300	9,321	5,500	186		
Sea bass			25,000	1,306	8,100	212		
Sea robin			2,600	41				
Shad	17,100	1,824	60,500	6,051	3,900	335	588,300	52,946
Snapper, red			100	4				
Spanish mackerel			175,200	4,380	34,000	685	18,900	548
Spot			288,500	5,769	252,600	3,902	17,200	344
Squeteagues or "sea trout":								
Gray	200	7	513,100	11,464	3,253,000	65,065	384,900	6,867
Spotted			2,700	162	6,000	300	4,000	210
Striped bass	10,900	1,083	300	24	17,600	901	211,600	11,678
Sturgeon			1,800	266			200	30
Swellfish			1,700	23				
White perch	2,100	156	4,200	109	2,000	30	6,300	68
Whiting			3,700	52				
Yellow perch	200	16						
Crabs:								
Hard	5,900	295	282,100	5,883	1,530,000	27,555	6,501,900	102,268
Soft and peelers					382,500	30,800	524,200	52,460
Clams, hard, public					156,200	23,430		
Oysters, market:								
Public, spring							60,000	4,000
Public, fall							108,000	7,200
Private, spring			178,300	16,028	593,500	38,380	234,000	15,600
Private, fall			1,188,600	89,231	889,000	57,150	270,000	18,000
Squid			9,600	190	71,700	1,434		
Total	111,000	5,105	5,311,200	192,633	9,735,700	298,723	83,537,300	618,345

Species	Prince George		Princess Anne		Prince William	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	2,400	$48	3,500	$46		
Bluefish			47,300	2,342		
Bonito			1,500	33		
Butterfish			482,800	5,187		
Carp	43,600	872			30,000	$600
Catfish and bullheads	52,800	2,112			27,900	729
Croaker			517,300	8,420		
Drum, red or redfish			9,200	183		
Eels, common	3,000	180			800	40
Flounders			5,800	426		
Gizzard shad	3,600	72			3,000	30
Harvestfish			14,000	304		
Hickory shad			400	8		
King whiting or "kingfish"			43,400	1,262		
Mackerel			2,100	43		
Mullet			1,800	54		
Pompano			3,200	192		
Scup			100	2		
Shad	7,300	730	2,500	262	6,300	615
Sheepshead			100	2		

Fisheries of Virginia, 1937—Continued

CATCH: BY COUNTIES—Continued

Species	Prince George		Princess Anne		Prince William	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Spanish mackerel	--------	--------	33, 500	$1, 095	--------	--------
Spot	--------	--------	582, 400	10, 889	--------	--------
Squeteagues or "sea trout":						
Gray	--------	--------	264, 000	3, 706	--------	--------
Spotted	--------	--------	10, 100	707	--------	--------
Striped bass	2, 500	$125	3, 000	240	53, 400	$3, 738
White perch	1, 300	39	1, 700	51	13, 900	280
Yellow perch	200	8	--------	--------	4, 700	235
Crabs, hard	--------	--------	328, 000	5, 740	5, 000	175
Clams, hard, private	--------	--------	7, 000	1, 750	--------	--------
Oysters, market, private, fall	--------	--------	14, 000	1, 000	--------	--------
Total	116, 700	4, 186	2, 378, 700	43, 944	145, 000	6, 442

Species	Richmond		Stafford		Surry	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	20, 200	$202	2, 000	$20	--------	--------
Carp	7, 000	140	38, 700	774	4, 500	$65
Catfish and bullheads	22, 400	672	61, 100	1, 833	21, 200	574
Croaker	2, 900	58	--------	--------	300	6
Eels, common	6, 200	310	32, 000	1, 605	--------	--------
Flounders	200	10	--------	--------	--------	--------
Gizzard shad	20, 900	209	25, 700	257	2, 300	23
Hickory shad	1, 800	36	--------	--------	--------	--------
Shad	12, 400	1, 180	25, 500	2, 800	4, 400	485
Spot	1, 000	20	--------	--------	--------	--------
Squeteagues or "sea trout," gray	3, 400	68	--------	--------	1, 100	22
Striped bass	15, 400	924	87, 000	7, 866	10, 100	505
White perch	11, 700	351	16, 500	330	1, 500	40
Yellow perch	1, 200	60	24, 700	1, 235	--------	--------
Crabs, hard	30, 000	750	28, 000	1, 120	--------	--------
Oysters, market:						
Public, spring	54, 000	4, 050	--------	--------	--------	--------
Public, fall	84, 000	6, 300	--------	--------	--------	--------
Private, spring	36, 000	2, 700	--------	--------	--------	--------
Private, fall	60, 000	4, 500	--------	--------	--------	--------
Total	390, 700	22, 540	341, 200	17, 840	45, 400	1, 720

Species	Warwick		Westmoreland		York	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	69, 600	$696	383, 500	$3, 000	9, 000	$90
Bluefish	7, 700	308	11, 800	472	70, 700	2, 388
Bonito	--------	--------	--------	--------	600	24
Butterfish	7, 700	153	500	10	27, 000	715
Cabio or crab eater	--------	--------	--------	--------	1, 400	56
Carp	5, 300	53	14, 700	253	--------	--------
Catfish and bullheads	30, 700	921	23, 200	734	--------	--------
Cod	--------	--------	--------	--------	700	13
Croaker	251, 200	5, 507	76, 500	1, 148	4, 443, 600	73, 994
Drum:						
Black	1, 000	7	--------	--------	--------	--------
Red or redfish	1, 700	19	--------	--------	2, 900	55
Eels, common	1, 200	96	5, 100	408	--------	--------
Flounders	14, 500	710	100	4	84, 400	5, 432
Gizzard shad	5, 600	56	21, 500	215	--------	--------
Hake	--------	--------	--------	--------	100	1
Harvestfish	25, 000	375	500	10	--------	--------
Hickory shad	4, 800	144	2, 900	87	500	7
King whiting or "kingfish"	3, 500	105	--------	--------	32, 800	992
Menhaden	50, 000	200	--------	--------	--------	--------
Pompano	1, 200	120	--------	--------	--------	--------
Scup	162, 700	1, 731	--------	--------	294, 000	6, 302
Sea bass	8, 500	387	--------	--------	32, 300	1, 631
Shad	74, 900	1, 550	40, 000	3, 409	44, 900	3, 772
Sharks	--------	--------	--------	--------	1, 800	66
Spanish mackerel	1, 500	45	2, 500	75	4, 000	75
Spot	10, 600	206	12, 600	252	324, 800	6, 752
Squeteagues or "sea trout":						
Gray	77, 600	1, 523	319, 500	4, 793	579, 400	13, 372
Spotted	--------	--------	--------	--------	63. 800	2, 551
Striped bass	55, 200	2, 760	98, 700	5, 012	17, 800	1, 456

Fisheries of Virginia, 1937—Continued

CATCH: BY COUNTIES—continued

Species	Warwick		Westmoreland		York	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Sturgeon	600	$69			1,500	$205
Swellfish					900	36
Tautog					200	9
Tomcod					100	1
White perch	7,500	112	27,400	$822	6,500	99
Whiting	3,400	34			7,300	74
Crabs:						
Hard	153,000	2,355	1,646,000	28,805	3,426,000	106,055
Soft and peelers			50,000	6,000		
Shrimp					1,700	120
Clams, hard, public	25,000	4,800			106,700	19,032
Oysters, market:						
Public, spring	30,000	2,400	210,000	14,000	25,000	2,000
Public, fall	35,000	2,800	300,000	20,000	50,000	4,000
Private, spring			60,000	4,000		
Private, fall			30,000	2,000	495,500	37,287
Squid					3,300	61
Total	1,126,200	30,242	3,337,000	95,509	10,161,200	288,723

SEED OYSTER FISHERY: BY GEAR

Item	Tongs	
OPERATING UNITS		
Fishermen:	*Number*	
On vessels	37	
On boats and shore:		
Regular	1,051	
Casual	132	
Total	1,220	
Vessels, motor	13	
Net tonnage	69	
Boats:		
Motor	433	
Other	33	
Apparatus, number	910	
CATCH		
Oysters, seed:	*Bushels*	*Value*
Public, spring	249,900	$62,479
Public, fall	544,200	136,006
Private, fall	2,400	600
Total	796,500	199,085

SEED OYSTER FISHERY: BY COUNTIES

Item	Elizabeth City		Gloucester		Isle of Wight		Mathews	
OPERATING UNITS								
Fishermen:	*Number*		*Number*		*Number*		*Number*	
On vessels			16					
On boats and shore:								
Regular	28		275		250		15	
Casual					42			
Total	28		291		292		15	
Vessels, motor			6					
Net tonnage			31					
Boats:								
Motor	9		87		114		5	
Other					15			
Apparatus, tongs	19		187		242		10	
CATCH								
Oysters, seed:	*Bushels*	*Value*	*Bushels*	*Value*	*Bushels*	*Value*	*Bushels*	*Value*
Public, spring	3,300	$817	34,900	$8,725	80,300	$20,086	1,700	$430
Public, fall	7,000	1,752	71,800	17,943	177,400	44,346	3,700	922
Total	10,300	2,569	106,700	26,668	257,700	64,432	5,400	1,352

Fisheries of Virginia, 1937—Continued

SEED OYSTER FISHERY: BY COUNTIES—Continued

Item	Nansemond		Norfolk		Warwick		York	
OPERATING UNITS								
Fishermen:	*Number*		*Number*		*Number*		*Number*	
On vessels	21							
On boats and shore:								
Regular	153		28		170		132	
Casual	20				50		20	
Total	194		28		220		152	
Vessels, motor	7							
Net tonnage	38							
Boats:								
Motor	65		12		85		56	
Other	5						13	
Apparatus, tongs	142		23		170		117	
CATCH								
Oysters, seed:	*Bushels*	*Value*	*Bushels*	*Value*	*Bushels*	*Value*	*Bushels*	*Value*
Public, spring	47,400	$11,854	4,000	$989	56,400	$14,110	21,900	$5,468
Public, fall	101,200	25,263	8,500	2,121	124,600	31,152	50,000	12,507
Private, fall	2,400	600						
Total	151,000	37,717	12,500	3,110	181,000	45,262	71,900	17,975

NOTE.—Of the total number of persons fishing for seed oysters, 815 are duplicated among those fishing for market oysters or other species. Similarly, the following craft and gear are duplicated: 295 motorboats, 21 other boats, and 606 tongs.

SHAD AND ALEWIFE FISHERIES OF THE POTOMAC RIVER

The catch of shad in the Potomac River in 1937 amounted to 164,093 in number, 434,900 pounds in weight, and their total value to the fishermen was $40,332. The catch of alewives for the same season amounted to 7,567,500 in number, with a total weight of 3,025,200 pounds, and a value to the fishermen of $29,143. These figures show an increase of 21 percent in the weight and 14 percent in the value of shad as compared with 1936, and a decrease of 33 percent in weight and 21 percent in the value of alewives.

Approximately 79 percent of the shad, in weight, were taken with pound nets, and 21 percent with gill nets. More than 99 percent of the alewives were taken with pound nets, only a small quantity being taken with gill nets.

Statistics of the catch of shad and alewives in the Potomac River are also included in the catch data for Maryland and Virginia which are published elsewhere in this report.

Shad and Alewife fisheries of the Potomac River, 1937

Item	Maryland			Virginia			Total		
Fishermen on boats and shore:	*Number*	*Pounds*	*Value*	*Number*	*Pounds*	*Value*	*Number*	*Pounds*	*Value*
Regular	32			160			192		
Casual	39			221			260		
Total	71			381			452		
Boats:									
Motor	25			118			143		
Other	17			149			166		
Apparatus:									
Gill nets:									
Drift	7			33					
Square yards	10,229			46,080					
Stake	618			2,454					
Square yards	48,970			46,740					
Pound nets	33			228			261		

Shad and Alewife fisheries of the Potomac River, 1937—Continued

Item	Maryland			Virginia			Total		
	Number	*Pounds*	*Value*	*Number*	*Pounds*	*Value*	*Number*	*Pounds*	*Value*
Shad caught:									
With drift gill nets	4, 802	13, 200	$1, 101	10, 860	30, 100	$3, 280	15, 662	43, 300	$4, 381
With stake gill nets	1, 694	5, 100	684	16, 267	42, 000	4, 392	17, 961	47, 100	5, 076
With pound nets	9, 240	25, 200	2, 319	121, 230	319, 300	28, 556	130, 470	344, 500	30, 875
Total	15, 736	43, 500	4, 104	148, 357	391, 400	36, 228	164, 093	434, 900	40, 332
Alewives caught:									
With stake gill nets				5, 000	2, 000	20	5, 000	2, 000	20
With pound nets	519, 750	207, 900	1, 805	7, 042, 750	2, 815, 300	27, 318	7, 562, 500	3, 023, 200	29, 123
Total	519, 750	207, 900	1, 805	7, 047, 750	2, 817, 300	27, 338	7, 567, 500	3, 025, 200	29, 143

TRADE IN FISHERY PRODUCTS IN WASHINGTON, D. C.

The municipal fish wharf and market in Washington, D. C., is located in the southwestern part of the city on an arm of the Potomac River. At the present time 16 firms have stalls in this market, 2 are located in the immediate vicinity of the market, 2 have stalls in the Center Market, located at Fifth and K Streets NW., and 3 are located in other parts of the city. Altogether there are 23 firms which employ 156 persons who received $141,327 in salaries and wages during 1937. These firms conduct mainly a wholesale business although some retail trade is carried on. In 1937 manufactured products produced by firms in Washington, D. C., consisted of smoked fish and shucked oysters. The total value of these products amounted to $10,225.

The facilities for handling fish and oysters from boats and vessels that may land at the wharf are good, but only a comparatively small quantity are brought into the city by this method. In the fall and winter considerable quantities of shell oysters are landed, but most of the oysters handled in Washington are brought in already shucked from Maryland and Virginia by trucks and other transportation facilities.

FISHERIES OF THE SOUTH ATLANTIC AND GULF STATES

(South Atlantic, Area XXIV; Gulf, Area XXV) [8]

The yield of the commercial fisheries of the marine areas of the South Atlantic and Gulf States (North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Louisiana, and Texas) during 1937 amounted to 546,751,000 pounds, valued at $14,226,370 to the fishermen, representing a decrease of 2 percent in quantity, but an increase of 5 percent in value as compared with the catch of the previous year. These fisheries provided employment for 30,244 fishermen as compared with 29,006 in 1936.

There were 725 fishery wholesale and manufacturing establishments in these States in 1937, which was 22 more than indicated by the survey in 1936. In 1937 these establishments employed 18,534 persons, paid $3,863,777 in salaries and wages, and produced manufactured products (canned, cured, packaged, and byproducts) valued at

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[8] These are the numbers given to these areas by the North American Council on Fishery Investigations. The catch of the Mississippi River and tributaries is not included in this section. For a clearer understanding of the statistics published in this section the reader is referred to the section in the latter part of this document entitled "Statistical survey procedure."

$15,110,653. In 1936 wholesale and manufacturing firms employed 17,095 persons, paid $3,296,241 in salaries and wages and produced manufactured products valued at $11,445,674.

Fisheries of the South Atlantic and Gulf States, 1937

SUMMARY OF CATCH

Product	North Carolina		South Carolina		Georgia	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Fish	102,749,300	$1,300,512	1,905,700	$106,347	10,431,800	$73,414
Shellfish, etc	10,005,700	357,779	5,259,900	161,361	12,010,800	332,162
Total	112,755,000	1,658,291	7,165,600	267,708	22,442,600	405,576

Product	Florida		Alabama		Mississippi	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Fish	210,258,900	$3,153,575	5,812,800	$244,974	1,190,600	$66,097
Shellfish, etc	21,916,500	1,897,405	5,104,300	216,396	37,889,300	1,665,118
Total	232,175,400	5,050,980	10,917,100	461,370	39,079,900	1,731,215

Product	Louisiana		Texas		Total	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Fish	5,131,300	$319,961	6,189,000	$383,433	343,669,400	$5,648,313
Shellfish, etc	91,879,100	3,281,224	19,016,000	666,612	203,081,600	8,578,057
Total	97,010,400	3,601,185	25,205,000	1,050,045	546,751,000	14,226,370

OPERATING UNITS: BY STATES

Item	North Carolina	South Carolina	Georgia	Florida	Alabama	Mississippi	Louisiana	Texas	Total
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:									
On vessels	900	52	187	1,369	168	983	502	161	4,322
On boats and shore:									
Regular	3,759	635	702	5,853	653	1,670	5,565	1,382	20,219
Casual	1,960	613	543	1,372	110	116	693	296	5,703
Total	6,619	1,300	1,432	8,494	931	2,769	6,760	1,839	30,244
Vessels:									
Motor	153	14	68	261	38	233	206	53	1,026
Net tonnage	1,549	158	572	4,307	494	2,831	1,567	535	12,013
Sail	61	1	------	------	------	7	------	------	69
Net tonnage	549	12	------	------	------	84	------	------	645
Total vessels	214	15	68	261	38	240	206	53	1,095
Total net tonnage	2,098	170	572	4,307	494	2,915	1,567	535	12,658
Boats:									
Motor	1,339	55	227	2,331	264	605	2,468	624	7,913
Other	1,818	668	548	3,196	412	633	1,712	294	9,281
Accessory boats	122	12	6	61	------	------	15	------	216
Apparatus:									
Purse seines:									
Menhaden	24	------	2	20	------	------	------	------	46
Length, yards	5,857	------	600	5,670	------	------	------	------	12,127
Other	2	------	------	------	------	------	------	------	2
Length, yards	400	------	------	------	------	------	------	------	400
Haul seines:									
Common	585	39	11	277	6	12	131	44	1,105
Length, yards	111,425	5,920	992	156,745	3,500	4,800	27,570	15,150	326,102
Long	81	------	------	------	------	------	------	------	81
Length, yards	80,500	------	------	------	------	------	------	------	80,500

Fisheries of the South Atlantic and Gulf States, 1937—Continued

OPERATING UNITS: BY STATES—Continued

Item	North Carolina	South Carolina	Georgia	Florida	Alabama	Mississippi	Louisiana	Texas	Total
Apparatus—Continued.									
Gill nets:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Anchor	2,047	195	34	26	------	------	------	------	2,302
Square yards	1,010,040	139,900	1,530	22,380	------	------	------	------	1,173,850
Drift	128	33	159	93	------	------	------	------	413
Square yards	152,340	40,050	75,015	139,400	------	------	------	------	406,805
Runaround	565	51	34	2,161	------	------	1	131	2,943
Square yards	380,110	22,730	13,200	2,233,076	------	------	550	32,650	2,682,316
Stake	5,994	17	216	8	12	------	------	352	6,599
Square yards	429,930	11,304	21,904	7,600	2,525	------	------	84,090	557,353
Trammel nets	------	------	------	566	166	59	57	106	954
Square yards	------	------	------	557,400	82,400	29,850	12,760	57,700	740,110
Lines:									
Hand	117	123	310	1,889	124	120	332	362	3,377
Hooks and baits	134	222	310	2,522	203	149	347	441	4,328
Trawl	------	------	------	15	------	------	------	------	15
Hooks	------	------	------	800	------	------	------	------	800
Troll	32	------	------	993	------	6	------	7	1,038
Hooks	32	------	------	993	------	6	------	7	1,038
Trot with baits or snoods	673	98	232	212	102	173	876	49	2,415
Baits or snoods	442,900	49,200	99,250	95,900	29,900	101,600	220,550	14,700	1,054,000
Trot with hooks	15	------	91	237	279	------	550	77	1,249
Hooks	2,450	------	10,900	81,850	83,100	------	235,800	64,500	478,600
Pound nets	3,083	------	------	21	------	------	------	------	3,104
Wheels	10	------	------	------	------	------	------	------	10
Fyke nets	557	------	------	8	90	------	428	------	1,083
Dip nets:									
Common	469	------	------	83	------	------	65	34	651
Drop	------	------	------	26	------	------	8,925	------	8,951
Cast nets	------	25	------	232	------	41	160	------	458
Otter trawls:									
Fish	1	1	------	5	------	------	------	------	7
Yards at mouth	20	23	------	122	------	------	------	------	165
Shrimp	194	39	245	318	177	695	2,096	430	4,194
Yards at mouth	3,247	795	4,686	6,163	2,639	10,637	26,976	6,677	61,820
Traps, brush	------	------	------	------	------	------	28,300	------	28,300
Pots:									
Crab	------	------	655	5,783	------	------	------	800	7,238
Eel	1,412	------	------	90	------	------	------	------	1,502
Fish	54	76	84	4,920	655	------	------	------	5,789
Sea crawfish	------	------	------	2,075	------	------	------	------	2,075
Turtle	68	------	------	------	------	------	------	------	68
Spears	317	95	------	84	54	45	------	134	729
Dredges:									
Clam	------	------	------	1	------	------	------	------	1
Oyster	296	1	------	3	25	385	129	58	897
Yards at mouth	286	2	------	3	25	388	129	60	893
Scallop	------	------	------	37	------	------	------	------	37
Yards at mouth	------	------	------	27	------	------	------	------	27
Tongs, oyster	120	------	27	315	244	621	827	110	2,264
Rakes:									
Oyster	------	------	------	1	------	------	------	------	1
Other	1,108	------	------	------	------	------	------	------	1,108
Forks	------	------	------	9	------	------	------	------	9
Grabs	------	135	35	11	------	------	------	------	181
Coquina scoops	------	------	------	2	------	------	------	------	2
Hooks:									
Conch	------	------	------	3	------	------	------	------	3
Sponge	------	------	------	256	------	------	------	------	256
Diving outfits	------	------	------	72	------	------	------	------	72

Fisheries of the South Atlantic and Gulf States, 1937—Continued

CATCH: BY STATES

Species	North Carolina		South Carolina		Georgia	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
FISH						
Alewives	5,817,700	$58,461	-----	-----	-----	-----
Bluefish	1,657,000	82,011	29,800	$2,363	-----	-----
Bonito	900	14	-----	-----	-----	-----
Bowfin	3,100	38	-----	-----	-----	-----
Butterfish	13,400	370	200	6	-----	-----
Carp	324,200	6,923	-----	-----	-----	-----
Catfish and bullheads	653,300	18,478	51,000	1,865	90,500	$4,675
Cero	200	8	-----	-----	-----	-----
Croaker	9,987,900	118,349	900	16	3,000	120
Drum:						
Black	34,600	952	34,000	1,280	7,000	280
Red or redfish	441,200	14,777	118,500	6,255	37,500	1,960
Eels, common	91,100	2,539	-----	-----	4,000	480
Flounders	403,800	20,190	57,700	5,173	14,100	705
Gizzard shad	37,700	377	-----	-----	-----	-----
Grunts	-----	-----	5,000	150	-----	-----
Harvestfish or "starfish"	640,900	10,368	-----	-----	-----	-----
Hickory shad	160,300	4,320	5,300	102	13,400	392
Hogfish	10,200	102	-----	-----	-----	-----
King whiting or "kingfish"	722,100	21,596	106,400	3,892	101,600	1,515
Menhaden	61,706,000	219,531	-----	-----	9,864,000	23,330
Mullet	3,973,900	134,043	627,000	22,250	18,000	440
Pigfish	80,400	947	-----	-----	-----	-----
Pike or pickerel	400	14	-----	-----	-----	-----
Pinfish or sailors choice	37,400	559	-----	-----	-----	-----
Pompano	50,600	5,167	-----	-----	-----	-----
Porgies	-----	-----	1,900	32	-----	-----
Sea bass	117,700	5,735	234,000	13,180	-----	-----
Sea catfish	-----	-----	120,000	3,600	-----	-----
Shad	698,400	106,151	137,600	29,750	193,100	32,043
Sharks	231,600	772	15,000	150	-----	-----
Sheepshead, salt-water	13,800	441	5,000	100	8,000	240
Spadefish	40,400	1,161	-----	-----	-----	-----
Spanish mackerel	218,600	10,930	-----	-----	-----	-----
Spot	5,269,700	91,195	245,000	6,655	5,000	75
Squeteagues or "sea trout":						
Gray	7,525,100	214,029	5,700	271	-----	-----
Spotted	901,100	73,701	81,000	7,230	65,000	5,850
Striped bass	712,900	69,424	-----	-----	-----	-----
Sturgeon	600	60	24,700	2,027	7,600	1,309
Suckers	3,000	36	-----	-----	-----	-----
White perch	161,400	6,481	-----	-----	-----	-----
Yellow perch	6,700	262	-----	-----	-----	-----
Total	102,749,300	1,300,512	1,905,700	106,347	10,431,800	73,414
SHELLFISH, ETC.						
Crabs:						
Hard [1]	3,245,600	51,538	1,226,500	18,408	2,257,900	34,421
Soft and peelers	141,800	22,600	8,300	1,230	-----	-----
Shrimp	4,184,000	125,502	1,200,700	36,021	9,503,900	284,065
Clams, hard, public [2]	430,000	34,343	7,900	491	-----	-----
Oysters, market:[3]						
Public, spring	655,900	36,067	-----	-----	-----	-----
Public, fall	1,218,700	72,380	-----	-----	-----	-----
Private, spring	24,800	1,222	1,498,100	55,117	134,300	7,085
Private, fall	41,500	2,382	1,313,500	49,601	104,700	5,491
Scallops, bay	61,900	11,680	-----	-----	-----	-----
Terrapin, diamond-back	-----	-----	4,900	493	10,000	1,100
Turtles: Snapper	1,500	65	-----	-----	-----	-----
Total	10,005,700	357,779	5,259,900	161,361	12,010,800	332,162
Grand total	112,755,000	1,658,291	7,165,600	267,708	22,442,600	405,576

See footnotes at end of table.

Fisheries of the South Atlantic and Gulf States, 1937—Continued

CATCH: BY STATES—Continued

Species	Florida		Alabama		Mississippi	
FISH	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	400, 000	$1, 999				
Amberjack	50, 600	1, 118				
Angelfish	9, 000	240				
Bluefish	3, 578, 700	171, 110	28, 300	$1, 722		
Blue runner or hardtail	769, 300	8, 875	14, 300	351		
Buffalofish			29, 000	1, 650		
Cabio or crab eater	1, 800	52				
Catfish and bullheads	4, 497, 000	174, 153	116, 600	8, 751		
Cigarfish	16, 800	341				
Crappie	524, 100	17, 346				
Crevalle	195, 900	3, 576				
Croaker	35, 900	595	31, 000	701	7, 600	$233
Dolphin	3, 000	150				
Drum:						
Black	84, 800	1, 912	7, 700	270	11, 300	362
Red or redfish	1, 029, 900	36, 463	66, 700	5, 002	123, 200	6, 160
Eels, common	8, 600	215				
Flounders	292, 500	17, 713	37, 300	3, 560	27, 800	2, 472
Groupers	5, 173, 000	162, 663	219, 200	7, 670	128, 600	3, 857
Grunts	54, 200	1, 103				
Hickory shad	51, 000	1, 520				
Hogfish	11, 200	248				
Jewfish	65, 300	2, 370				
Kingfish or "king mackerel"	3, 355, 700	123, 933				
King whiting or "kingfish"	751, 400	11, 564	7, 200	210	8, 400	262
Menhaden	139, 788, 000	372, 970				
Mojarra	349, 000	6, 654				
Moonfish	5, 400	159				
Mullet	27, 679, 600	927, 430	3, 733, 400	108, 020	161, 100	4, 835
Muttonfish	233, 200	14, 446				
Paddlefish or spoonbill cat			21, 300	1, 495		
Permit	11, 800	277				
Pigfish	36, 600	640				
Pinfish or sailors choice	32, 500	474				
Pompano	641, 500	132, 419	1, 800	338	100	15
Porgies	48, 500	1, 435				
Sea bass	42, 000	1, 940				
Sea catfish	70, 200	1, 324	25, 600	590	10, 800	216
Shad	288, 400	23, 606				
Sharks	2, 310, 000	13, 598				
Sheepshead:						
Fresh-water			13, 500	675		
Salt-water	819, 300	21, 523	41, 400	2, 070	33, 100	1, 324
Skates	3, 000	15				
Snapper:						
Mangrove	194, 700	6, 895				
Red	4, 760, 900	319, 359	1, 168, 200	83, 867	303, 800	21, 251
Snook or sergeantfish	524, 000	20, 800				
Spadefish	10, 800	222				
Spanish mackerel	6, 150, 000	276, 192	23, 300	2, 016	700	84
Spot	293, 600	5, 593	35, 500	799	1, 200	39
Squeteagues or "sea trout":						
Gray	400	4				
Spotted	3, 335, 800	214, 303	145, 500	13, 850	210, 600	18, 955
White	89, 100	4, 020	22, 500	726	162, 300	6, 032
Sturgeon	33, 500	3, 331	3, 100	233		
Sunfish	980, 700	28, 536				
Tenpounder	434, 300	7, 986	20, 400	408		
Tripletail	23, 200	357				
Yellowtail	109, 200	7, 808				
Total	210, 258, 900	3, 15[illegible], 575	5, 812, 800	244, 974	1, 190, 600	66, 097
SHELLFISH, ETC.						
Crabs:						
Hard[1]	4, 526, 100	73, 806	756, 000	11, 336	1, 434, 800	25, 201
Soft and peelers	1, 500	89			1, 800	306
Stone	46, 100	9, 316				
Sea crawfish or spiny lobster	292, 500	21, 621				
Shrimp	14, 037, 400	431, 812	3, 103, 800	137, 985	23, 558, 000	1, 060, 224
Clams:						
Coquina	3, 700	450				
Hard, public[2]	748, 100	49, 172				
Conchs	7, 400	553				
Oysters, market:[3]						
Public, spring	550, 900	31, 606	926, 100	41, 583	12, 339, 900	542, 798
Public, fall	380, 600	28, 379	197, 400	15, 572	554, 200	36, 541
Private, spring	205, 100	9, 757	48, 800	3, 077		
Private, fall	143, 300	6, 993	62, 900	5, 913		
Scallops, bay	118, 600	9, 499				

See footnotes at end of table.

Fisheries of the South Atlantic and Gulf States, 1937—Continued

CATCH: BY STATES—Continued

Species	Florida		Alabama		Mississippi	
SHELLFISH, ETC.—continued	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Terrapin, diamond-back			9, 300	$930	600	$48
Turtles:						
Green	10, 000	$400				
Soft-shell	213, 800	4, 247				
Sponges:						
Grass	21, 700	14, 003				
Sheepswool	444, 000	1, 089, 367				
Wire	16, 200	12, 382				
Yellow	149, 500	103, 953				
Total	21, 916, 500	1, 897, 405	5, 104, 300	216, 396	37, 889, 300	1, 665, 118
Grand total	232, 175, 400	5, 050, 980	10, 917, 100	461, 370	39, 079, 900	1, 731, 215

Species	Louisiana		Texas		Total	
FISH	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives					6, 217, 700	$60, 460
Amberjack					50, 600	1, 118
Angelfish					9, 000	240
Bluefish					5, 293, 800	257, 206
Blue runner or hardtail					783, 600	9, 226
Bonito					900	14
Bowfin					3, 100	38
Buffalofish	683, 500	$34, 782	3, 400	$204	715, 900	36, 636
Butterfish					13, 600	376
Cabio or crab eater	200	4			2, 000	56
Carp					324, 200	6, 923
Catfish and bullheads	1, 592, 300	122, 370	66, 600	3, 325	7, 067, 300	333, 617
Cero					200	8
Cigarfish					16, 800	341
Crappie					524, 100	17, 346
Crevalle					195, 900	3, 576
Croaker	136, 600	3, 877	82, 600	2, 181	10, 285, 500	126, 072
Dolphin					3, 000	150
Drum:						
Black	165, 100	4, 620	1, 549, 000	39, 930	1, 893, 500	49, 606
Red or redfish	449, 600	28, 823	954, 500	64, 666	3, 221, 100	164, 106
Eels, common					103, 700	3, 234
Flounders	53, 900	4, 395	110, 600	10, 170	997, 700	64, 378
Garfish	6, 200	124			6, 200	124
Gizzard shad					37, 700	377
Groupers	6, 100	244	19, 600	638	5, 546, 500	175, 072
Grunts					59, 200	1, 253
Harvestfish or "starfish"					640, 900	10, 368
Hickory shad					230, 000	6, 334
Hogfish					21, 400	350
Jewfish	17, 000	765	2, 700	91	85, 000	3, 226
Kingfish or "king mackerel"			3, 000	107	3, 358, 700	124, 040
King whiting or "kingfish"	25, 800	864	3, 000	65	1, 725, 900	39, 968
Menhaden					211, 358, 000	499, 251
Mojarra					349, 000	6, 654
Moonfish					5, 400	159
Mullet	10, 700	321	6, 600	159	36, 210, 300	1, 197, 498
Muttonfish					233, 200	14, 446
Paddlefish or spoonbill cat	49, 400	2, 834			70, 700	4, 329
Permit					11, 800	277
Pigfish					117, 000	1, 587
Pike or pickerel					400	14
Pinfish or sailors choice					69, 900	1, 033
Pompano	800	195	4, 500	888	699, 300	139, 022
Porgies					50, 400	1, 467
Sea bass					393, 700	20, 855
Sea catfish	13, 800	279	31, 300	984	271, 700	6, 993
Shad					1, 317, 500	191, 550
Sharks					2, 556, 600	14, 520
Sheepshead:						
Fresh-water	590, 200	16, 183			603, 700	16, 858
Salt-water	187, 000	10, 074	41, 100	1, 241	1, 148, 700	37, 013
Skates					3, 000	15
Snapper:						
Mangrove					194, 700	6, 895
Red	148, 100	12, 068	1, 141, 200	79, 781	7, 522, 200	516, 326
Snook or sergeantfish			9, 200	554	533, 200	21, 354
Spadefish					51, 200	1, 383
Spanish mackerel	2, 000	200	38, 800	2, 511	6, 433, 400	291, 933
Spot	3, 700	79	12, 000	240	5, 865, 700	104, 675

See footnotes at end of table.

Fisheries of the South Atlantic and Gulf States, 1937—Continued

CATCH: BY STATES—Continued

Species	Louisiana		Texas		Total	
FISH—continued						
Squeteagues or "sea trout":	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Gray					7, 531, 200	$214, 304
Spotted	787, 700	$68, 567	2, 089, 800	$175, 146	7, 616, 500	577, 602
White	199, 600	8, 193	19, 500	552	493, 000	19, 523
Striped bass					712, 900	69, 424
Sturgeon					69, 500	6, 960
Suckers					3, 000	36
Sunfish					980, 700	28, 536
Tenpounder					454, 700	8, 394
Tripletail	2, 000	100			25, 200	457
White perch					161, 400	6, 481
Yellow perch					6, 700	262
Yellowtail					109, 200	7, 808
Total	5, 131, 300	319, 961	6, 189, 000	383, 433	343, 669, 400	5, 648, 313
SHELLFISH, ETC.						
Crabs:						
Hard [1]	14, 717, 100	194, 811	921, 600	24, 577	29, 085, 600	434, 098
Soft and peelers	329, 300	50, 957			482, 700	75, 182
Stone					46, 100	9, 316
Sea crawfish or spiny lobster					292, 500	21, 621
Shrimp	68, 780, 900	2, 382, 540	16, 904, 800	551, 404	141, 273, 500	5, 009, 553
Clams:						
Coquina					3, 700	450
Hard, public [2]					1, 186, 000	84, 006
Conchs					7, 400	553
Oysters, market:[3]						
Public, spring	1, 395, 800	76, 225	618, 000	44, 697	16, 486, 600	772, 976
Public, fall	62, 900	6, 160	571, 600	45, 934	2, 985, 400	204, 966
Private, spring	4, 234, 400	325, 688			6, 145, 500	401, 946
Private, fall	2, 355, 000	244, 443			4, 020, 900	314, 823
Scallops, bay					180, 500	21, 179
Terrapin, diamond-back	3, 700	400			28, 500	2, 971
Turtles:						
Green					10, 000	400
Snapper					1, 500	65
Soft-shell					213, 800	4, 247
Sponges:						
Grass					21, 700	14, 003
Sheepswool					444, 000	1, 089, 367
Wire					16, 200	12, 382
Yellow					149, 500	103, 953
Total	91, 879, 100	3, 281, 224	19, 016, 000	666, 612	203, 081, 600	8, 578, 057
Grand total	97, 010, 400	3, 601, 185	25, 205, 000	1, 050, 045	546, 751, 000	14, 226, 370

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[1] Statistics on hard crabs used in this table are based on yields of 4.07 pounds per dozen in North Carolina; 6 pounds in South Carolina; 5.71 pounds in Georgia and Alabama; 5.77 pounds in Florida; 5.74 pounds in Mississippi; 5.56 pounds in Louisiana; and 6.12 pounds in Texas.

[2] Statistics on hard clams used in this table are based on yields of 8 pounds of meats per bushel.

[3] Statistics on oysters used in this table are based on yields of 5.52 pounds of meats per bushel in North Carolina; 5.87 pounds in South Carolina; 6.21 pounds in Georgia; 5.49 pounds in Florida; 5.13 pounds in Alabama; 4.95 pounds in Mississippi; 4.09 pounds in Louisiana; and 5.64 pounds in Texas.

NOTE.—The catch for Mississippi includes the following products taken by Mississippi craft in Louisiana waters: Shrimp, 19,064,700 pounds, valued at $858,027; oysters, market, spring, 8,173,000 pounds of meats, valued at $351,784; and oysters, market, fall, 219,400 pounds of meats, valued at $14,315. The seed oyster fishery was prosecuted in this section only in North Carolina where 17 fishermen using 8 sail boats and 14 dredges took 8.000 bushels of seed oysters, valued at $1,760 from public beds. All of the persons and gear engaged in the seed oyster fishery are duplicated among those fishing for market oysters or other species.

SUPPLEMENTARY TABLE SHOWING THE PRODUCTION OF CERTAIN SHELLFISH IN NUMBER AND BUSHELS

Product	North Carolina		South Carolina		Georgia	
Crabs:	*Quantity*	*Value*	*Quantity*	*Value*	*Quantity*	*Value*
Hard ......number	9, 569, 337	$51, 538	2, 453, 000	$18, 408	4, 745, 149	$34, 421
Soft and peelers ......do	992, 600	22, 600	24, 900	1, 230		
Clams, hard, public ......bushels	53, 750	34, 343	988	491		
Oysters, market:						
Public, spring ......do	118, 822	36, 067				
Public, fall ......do	220, 779	72, 380				
Private, spring ......do	4, 493	1, 222	255, 213	55, 117	21, 626	7, 085
Private, fall ......do	7, 518	2, 382	223, 765	49, 601	16, 860	5, 491
Scallops, bay ......do	8, 060	11, 680				

Fisheries of the South Atlantic and Gulf States, 1937—Continued

SUPPLEMENTARY TABLE SHOWING THE PRODUCTION OF CERTAIN SHELLFISH IN NUMBER AND BUSHELS—Continued

Product	Florida		Alabama		Mississippi	
	Quantity	*Value*	*Quantity*	*Value*	*Quantity*	*Value*
Crabs:						
Hard..........number..	9,413,033	$73,806	1,588,792	$11,336	2,999,582	$25,201
Soft and peelers..........do....	4,500	89	----	----	5,400	306
Clams, hard, public......bushels..	93,512	49,172	----	----	----	----
Oysters, market:						
Public, spring..........do....	100,346	31,606	180,526	41,583	2,492,909	542,798
Public, fall..........do....	69,326	28,379	38,480	15,572	111,960	36,541
Private, spring..........do....	37,359	9,757	9,513	3,077	----	----
Private, fall..........do....	26,102	6,993	12,261	5,913	----	----
Scallops, bay..........do....	28,441	9,499	----	----	----	----

Product	Louisiana		Texas		Total	
	Quantity	*Value*	*Quantity*	*Value*	*Quantity*	*Value*
Crabs:						
Hard..........number..	31,763,525	$194,811	1,807,059	$24,577	64,339,477	$434,098
Soft and peelers..........do....	974,728	50,957	----	----	2,002,128	75,182
Clams, hard, public......bushels..	----	----	----	----	148,250	84,006
Oysters, market:						
Public, spring..........do....	341,271	76,225	109,574	44,697	3,343,448	772,976
Public, fall..........do....	15,379	6,160	101,348	45,934	557,272	204,966
Private, spring..........do....	1,035,306	325,688	----	----	1,363,510	401,946
Private, fall..........do....	575,795	244,443	----	----	862,301	314,823
Scallops, bay..........do....	----	----	----	----	36,501	21,179

Industries related to the fisheries of the South Atlantic and Gulf States, 1937

OPERATING UNITS, SALARIES, AND WAGES

Item	North Carolina	South Carolina	Georgia	Florida	Alabama	Mississippi	Louisiana	Texas	Total
Transporting:									
Persons engaged:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels......	73	111	----	52	6	6	96	----	344
On boats.......	4	5	----	83	----	----	116	----	208
Total.........	77	116	----	135	6	6	212	----	552
Vessels:									
Motor..........	43	11	----	29	3	3	48	----	137
Net tonnage.	361	144	----	357	37	54	423	----	1,376
Sail............	1	33	----	----	----	----	----	----	34
Net tonnage.	6	320	----	----	----	----	----	----	326
Total vessels.....	44	44	----	29	3	3	48	----	171
Total net tonnage.	367	464	----	357	37	54	423	----	1,702
Boats..............	2	5	----	82	----	----	58	----	147
Wholesale and manufacturing:									
Establishments.....	110	21	24	337	25	41	117	50	725
Persons engaged:									
Proprietors.....	119	13	18	370	22	24	102	57	725
Salaried employees.......	44	20	30	186	18	63	141	30	532
Wage earners:									
Average for season....	1,828	1,124	1,825	2,457	619	2,564	5,394	1,466	17,277
Average for year......	492	274	422	1,115	179	1,189	1,702	384	5,757
Paid to salaried employees..........	$57,274	$36,900	$52,873	$244,393	$23,617	$94,335	$205,359	$35,840	$750,591
Paid to wage earners............	$274,860	$113,160	$174,233	$657,781	$94,821	$523,122	$1,055,780	$219,429	$3,113,186
Total salaries and wages..........	$332,134	$150,060	$227,106	$902,174	$118,438	$617,457	$1,261,139	$255,269	$3,863,777
Fishermen manufacturing..................	628	24	23	433	90	108	40	130	1,476

Industries related to the fisheries of the South Atlantic and Gulf States, 1937—Con.

PRODUCTS MANUFACTURED

Item	North Carolina		South Carolina		Georgia		Florida	
	Quantity	*Value*	*Quantity*	*Value*	*Quantity*	*Value*	*Quantity*	*Value*
By manufacturing establishments:								
Alewives:								
Corned ..... pounds	3, 231, 200	$48, 034						
Roe, salted ..... do	26, 800	795						
Roe, canned ..... standard cases	12, 670	84, 931						
Blue runner, salted ..... pounds							360, 000	$12, 580
Groupers:								
Fresh fillets ..... do							128, 801	23, 756
Fresh steaks ..... do							425, 900	65, 940
Menhaden products:								
Acid scrap ..... tons	10, 731	208, 371			(1)	(1)	8, 633	158, 394
Dry scrap ..... do	3, 493	147, 510					3, 374	148, 161
Meal ..... do	2, 546	108, 802					4, 639	216, 070
Oil ..... gallons	839, 598	294, 443			(1)	(1)	146, 806	55, 803
Mullet:								
Salted ..... pounds	449, 500	27, 983					654, 000	35, 290
Roe, salted ..... do							30, 350	7, 338
Snapper, red:								
Fresh fillets ..... do							72, 000	21, 850
Fresh steaks ..... do							15, 475	3, 417
Spanish mackerel, salted ..... do	(1)	(1)					80, 000	4, 630
Spot, salted ..... do	63, 400	2, 536						
Crab meat, packaged, fresh-cooked ..... pounds	366, 610	121, 598	129, 143	$46, 709	261, 453	$93, 559	556, 921	219, 633
Sea crawfish meat, packaged, fresh-cooked ..... pounds							92, 800	36, 620
Shrimp:								
Cooked and peeled ..... do	(1)	(1)			(1)	(1)		
Canned ..... standard cases					118, 500	704, 489	47, 439	302, 784
Clams, hard, fresh-shucked ..... gallons	23, 075	34, 622						
Marine-shell novelties								75, 749
Oysters:								
Fresh-shucked ..... gallons	137, 083	125, 483	44, 371	37, 434	10, 980	11, 945	36, 037	49, 727
Canned ..... standard cases	(1)	(1)	98, 872	428, 562	(1)	(1)	14, 536	60, 890
Shell products:								
Poultry feed ..... tons			(2)	(2)			(1)	(1)
Lime and dust ..... do	645	1, 612					(1)	(1)
Scallops, bay, fresh-shucked ..... gallons							7, 633	17, 142
Unclassified products:								
Packaged, fresh and frozen ..... pounds	(3)	(3)					[4] 34, 800	[4] 8, 590
Salted and smoked ..... do	[5] 31, 127	[5] 3, 152					[6] 25, 100	[6] 1, 435
Canned ..... standard cases	(3)	(3)			(3)	(3)	[7] 23, 732	[7] 149, 050
Miscellaneous	[8] 231, 214	[8] 67, 826			[9] 151,322	[9] 95,101	[10] 51, 478	[10] 250, 033
Total		1, 277, 698		512, 705		905, 094		1, 924, 882
By fishermen:								
Amberjack, smoked ..... pounds							900	225
Alewives, corned ..... do	428, 500	6, 520						
Drum, red, smoked ..... do							200	50
King whiting, fresh fillets ..... do							1, 050	237
Mullet:								
Salted ..... do	310, 000	18, 600	10, 000	1, 200			358, 500	18, 060
Smoked ..... do							31, 450	5, 324
Roe, salted ..... do							5, 000	1, 080
Sailfish, smoked ..... do							10, 000	2, 200
Shark products:								
Skins ..... do							63, 408	4, 020
Fins ..... do							12, 100	4, 231
Liver oil ..... gallons							10, 568	4, 227
Spanish mackerel, smoked ..... pounds							300	75
Spot, salted ..... do	150, 000	6, 000	5, 000	350				
Squeteagues, smoked ..... do							650	163
Sturgeon, roe, salted ..... do			54	54	115	115		
Crab meat, packaged, fresh-cooked ..... pounds							1, 200	468
Clams, hard, fresh-shucked ..... gallons	9, 800	15, 900	749	823			110	165
Oysters, fresh-shucked ..... do	1, 125	1, 125	3, 434	3, 380	11, 239	8, 991	36, 588	37, 101
Scallops:								
Bay, fresh-shucked ..... do	7, 085	11, 680					5, 550	6, 248
Total		59, 825		5, 807		9, 106		83, 874
Grand total		1, 337, 523		518, 512		914, 200		2, 008, 756

See footnotes at end of table.

Industries related to the fisheries of the South Atlantic and Gulf States, 1937—Con.

PRODUCTS MANUFACTURED—Continued

Item	Alabama		Mississippi		Louisiana		Texas	
	Quantity	*Value*	*Quantity*	*Value*	*Quantity*	*Value*	*Quantity*	*Value*
By manufacturing establishments:								
Groupers:								
Fresh fillets....pounds..	(1)	(1)	(1)	(1)	--------	--------	--------	--------
Fresh steaks.......do....	(1)	(1)	--------	--------	--------	--------	--------	--------
Mullet:								
Salted.............do....	918,500	$47,310	(1)	(1)	--------	--------	--------	--------
Roe, salted........do....	5,500	1,210	--------	--------	--------	--------	--------	--------
Snapper, red:								
Fresh fillets.......do....	(1)	(1)	(1)	(1)	--------	--------	--------	--------
Fresh steaks ......do....	(1)	(1)	--------	--------	--------	--------	--------	--------
Squeteagues, salted...do....	--------	--------	--------	--------	20,800	$3,120	--------	--------
Crab meat, packaged, fresh-cooked..........pounds..	71,500	15,958	201,771	$55,154	1,304,303	368,074	34,680	$9,056
Shrimp:								
Cooked and peeled pounds..	(1)	(1)	473,055	139,584	218,069	71,382	(1)	(1)
Canned standard cases..	45,153	242,911	312,151	1,663,951	702,817	3,862,353	60,295	353,963
Meal..............tons..	--------	--------	--------	--------	1,334	30,573	--------	--------
Sun-dried......pounds..	--------	--------	--------	--------	1,366,805	250,077	--------	--------
Oysters:								
Fresh-shucked..gallons..	25,904	34,994	40,412	65,211	259,800	391,306	98,237	138,395
Canned standard cases..	31,561	132,256	321,964	1,316,664	116,266	462,760	--------	--------
Shell products:								
Poultry feed.. tons..	(1)	(1)	17,045	62,397	(1)	(1)	(1)	(1)
Lime and dust.do...	(1)	(1)	2,945	4,274	(1)	(1)	(1)	(1)
Unclassified products:								
Packaged, fresh and frozen........pounds..	(3)	(3)	(3)	(3)	--------	--------	--------	--------
Salted and smoked.do....	--------	--------	(3)	(3)	--------	--------	--------	--------
Canned standard cases..	--------	--------	--------	--------	(3)	(3)	--------	--------
Miscellaneous...........	[11] 74,500	[11] 31,315	[12] 53,312	[12] 8,340	[13] 117,484	[13] 358,306	[14] 75,800	[14] 128,478
Total................	--------	505,954	--------	3,315,575	--------	5,797,951	--------	629,892
By fishermen:								
Crab meat, packaged, fresh-cooked..........pounds..	35,400	7,780	29,460	7,660	--------	--------	37,268	7,923
Shrimp, sun-dried.. ..do....	--------	--------	--------	--------	9,500	1,570	--------	--------
Oysters, fresh-shucked gallons	11,430	11,677	16,810	19,322	1,400	1,610	20,859	24,748
Total................	--------	19,457	--------	26,982	--------	3,180	--------	32,671
Grand total...........	--------	525,411	--------	3,342,557	--------	5,801,131	--------	662,563

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[1] This item has been included under "Unclassified products."

[2] A small production of oyster-shell poultry feed manufactured in South Carolina has been included with the production of miscellaneous products in Georgia.

[3] This item has been included under "Miscellaneous."

[4] Includes fresh fillets of king mackerel, muttonfish, snook, Spanish mackerel, and squeteagues; fresh steaks of cabio and snook; and fresh pan-dressed red drum.

[5] Includes smoked alewives, and salted bluefish, king whiting roe, and Spanish mackerel fillets.

[6] Includes salted bluefish and tenpounder, and smoked mullet.

[7] Includes canned hard-clam products, coquina-clam broth, and frog and turtle products.

[8] Includes fresh fillets of croaker, red drum, flounders, sea bass, Spanish mackerel, and squeteagues; frozen fillets of bluefish, king whiting, Spanish mackerel, spot, and squeteagues; fresh pan-dressed croaker, red drum, flounders, sea bass, Spanish mackerel, scup, and squeteagues; cooked and peeled shrimp; canned oysters; alewife scrap and oil; and shark hides, fins, and liver oil.

[9] Includes canned oysters and terrapin products; cooked and peeled shrimp; menhaden acid scrap and oil; and a small quantity of oyster-shell poultry feed which was produced in South Carolina.

[10] Includes oyster-shell poultry feed and lime; and shark dry scrap.

[11] Includes fresh fillets of groupers, red snapper, Spanish mackerel, and squeteagues; fresh steaks of groupers and red snapper; cooked and peeled shrimp; and oyster-shell poultry feed and lime.

[12] Includes fresh fillets of groupers and red snapper; salted mullet; and canned crab and shrimp gumbo.

[13] Includes canned soft crabs, crab and shrimp gumbo, terrapin products, turtle meat, fish bouillon, crawfish soup, and frog products; and oyster-shell poultry feed and lime.

[14] Includes cooked and peeled shrimp, and oyster-shell poultry feed and lime.

NOTE.—The total value of manufactured products in the South Atlantic and Gulf States was as follows: By manufacturing establishments, $15,110,653; and by fishermen, $240,902. Some of the above products may have been imported from another State or a foreign country; therefore, they cannot be correlated directly with the catch within the State. All except 13 of the persons engaged in the preparation of fishermen's manufactured products have also been included as fishermen, and 312 of the persons shown on transporting craft have also been included as fishermen. This should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

NORTH CAROLINA

Fisheries of North Carolina, 1937

OPERATING UNITS: BY GEAR

Item	Purse seines		Haul seines		Gill nets				Lines
	Menhaden	Other	Common	Long	Anchor	Drift	Run-around	Stake	Hand
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	347	--------	34	140	173	--------	50	--------	23
On boats and shore:									
Regular	--------	12	1,903	322	445	48	686	317	44
Casual	--------	--------	339	--------	202	210	100	58	--------
Total	347	12	2,276	462	820	258	836	375	67
Vessels; motor:									
5 to 10 tons	5	--------	8	47	58	--------	18	--------	4
11 to 20 tons	6	--------	--------	--------	--------	--------	--------	--------	1
21 to 30 tons	3	--------	--------	--------	--------	--------	--------	--------	--------
31 to 40 tons	2	--------	--------	--------	--------	--------	--------	--------	--------
41 to 50 tons	3	--------	--------	--------	--------	--------	--------	--------	--------
51 to 60 tons	4	--------	--------	--------	--------	--------	--------	--------	--------
61 to 70 tons	1	--------	--------	--------	--------	--------	--------	--------	--------
Total	24	--------	8	47	58	--------	18	--------	5
Net tonnage	700	--------	50	316	357	--------	112	--------	44
Boats:									
Motor	--------	4	209	115	250	61	268	182	17
Other	--------	2	553	115	88	67	480	95	--------
Accessory boats	61	--------	5	47	--------	--------	9	--------	4
Apparatus:									
Number	24	2	585	81	2,047	128	565	5,994	117
Length, yards	5,857	400	111,425	80,500	--------	--------	--------	--------	--------
Square yards	--------	--------	--------	--------	1,010,040	152,340	380,110	429,930	--------
Hooks, baits, or snoods	--------	--------	--------	--------	--------	--------	--------	--------	134

Item	Lines—Continued			Pound nets	Wheels	Fyke nets	Dip nets	Otter trawls	
	Troll	Trot with baits or snoods	Trot with hooks					Fish	Shrimp
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	--------	--------	--------	--------	--------	--------	--------	3	127
On boats and shore:									
Regular	32	897	--------	456	--------	13	310	--------	301
Casual	--------	160	31	211	10	35	189	--------	--------
Total	32	1,057	31	667	10	48	499	3	428
Vessels, motor:									
5 to 10 tons	--------	--------	--------	--------	--------	--------	--------	--------	47
11 to 20 tons	--------	--------	--------	--------	--------	--------	--------	1	2
Total	--------	--------	--------	--------	--------	--------	--------	1	49
Net tonnage	--------	--------	--------	--------	--------	--------	--------	17	306
Boats:									
Motor	16	141	6	320	2	25	--------	--------	145
Other	--------	422	9	109	4	8	170	--------	--------
Apparatus:									
Number	32	673	15	3,083	10	557	469	1	194
Yards at mouth	--------	--------	--------	--------	--------	--------	--------	20	3,247
Hooks, baits, or snoods	32	442,900	2,450	--------	--------	--------	--------	--------	--------

Fisheries of North Carolina, 1937—Continued

OPERATING UNITS: BY GEAR—Continued

Item	Pots			Spears	Dredges, oyster	Tongs, oyster	Rakes, other than for oysters	By hand, oyster	Total, exclusive of duplication
	Eel	Fish	Turtle						
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels					171	4			900
On boats and shore:									
Regular	22			237	204	116	691	108	3,759
Casual	24	12	4	80	8		417	10	1,960
Total	46	12	4	317	383	120	1,108	118	6,619
Vessels:									
Motor:									
5 to 10 tons					1	1			130
11 to 20 tons									10
21 to 30 tons									3
31 to 40 tons									2
41 to 50 tons									3
51 to 60 tons									4
61 to 70 tons									1
Total					1	1			153
Net tonnage					6	6			1,549
Sail:									
5 to 10 tons					47				47
11 to 20 tons					12				12
21 to 30 tons					2				2
Total					61				61
Net tonnage					549				549
Total vessels					62	1			214
Total net tonnage					555	6			2,098
Boats:									
Motor	35		2		79	4			1,339
Other	5	12		279	32	112	461	69	1,818
Accessory boats						2			122
Apparatus:									
Number	1,412	54	68	317	296	120	1,108		
Yards at mouth					286				

CATCH: BY GEAR

Species	Purse seines				Haul seines			
	Menhaden		Other		Common		Long	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives					518,200	$5,199		
Bluefish					264,200	13,210	331,500	$16,575
Bonito					900	14		
Bowfin					1,200	12		
Butterfish					3,600	107		
Carp					88,000	1,760		
Catfish and bullheads					52,800	1,097		
Cero					200	8		
Croaker					766,700	9,133	3,422,200	37,457
Drum:								
Black					27,400	876	4,900	49
Red or redfish					333,800	12,696	48,600	727
Eels, common					400	9		
Flounders					76,200	3,810	18,400	920
Gizzard shad					21,300	213		
Harvestfish or "starfish"					102,400	1,789	27,400	417
Hickory shad					30,500	847	2,000	60
Hogfish							2,000	20
King whiting or "kingfish"					79,900	2,397	155,400	4,665
Menhaden	61,326,000	$218,147					356,000	1,299
Mullet			8,000	$240	1,868,900	67,147	6,600	198
Pigfish					48,100	624	14,000	140
Pinfish or sailors choice					37,000	555	400	4
Pompano					31,700	3,227	100	15
Shad					68,300	10,405	1,000	150

Fisheries of North Carolina, 1937—Continued

CATCH: BY GEAR—Continued

Species	Purse seines				Haul seines			
	Menhaden		Other		Common		Long	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Sheepshead	--------	--------	--------	--------	12, 600	$393	1, 000	$40
Spadefish	--------	--------	--------	--------	37, 300	1, 100	3, 100	61
Spanish mackerel	--------	--------	--------	--------	23, 200	1, 160	--------	--------
Spot	--------	--------	--------	--------	2, 829, 800	53, 763	1, 066, 400	13, 947
Squeteagues or "sea trout":								
Gray	--------	--------	--------	--------	305, 200	7, 938	1, 825, 600	53, 503
Spotted	--------	--------	--------	--------	345, 300	28, 710	323, 900	25, 881
Striped bass	--------	--------	55, 000	$5, 500	139, 300	13, 472	59, 000	5, 900
Sturgeon	--------	--------	--------	--------	--------	--------	400	40
White perch	--------	--------	--------	--------	72, 400	2, 825	--------	--------
Yellow perch	--------	--------	--------	--------	2, 200	88	--------	--------
Crabs, soft and peelers	--------	--------	--------	--------	92, 800	14, 832	--------	--------
Shrimp	--------	--------	--------	--------	2, 000	60	--------	--------
Total	61, 326, 000	$218, 147	63, 000	5, 740	8, 283, 800	259, 476	7, 669, 900	162, 068

Species	Gill nets							
	Anchor		Drift		Runaround		Stake	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	231, 200	$2, 347	47, 000	$470	--------	--------	41, 800	$452
Bluefish	34, 500	1, 725	--------	--------	670, 200	$33, 510	311, 100	15, 055
Bowfin	300	3	--------	--------	--------	--------	200	2
Carp	11, 500	230	300	6	2, 200	44	42, 600	852
Croaker	2, 358, 500	33, 533	--------	--------	29, 500	295	874, 500	11, 701
Drum:								
Black	--------	--------	--------	--------	--------	--------	200	6
Red or redfish	--------	--------	--------	--------	23, 300	466	8, 900	356
Gizzard shad	6, 100	61	--------	--------	--------	--------	1, 200	12
Hickory shad	29, 300	878	1, 000	30	--------	--------	29, 800	822
King whiting or "kingfish"	400, 500	11, 945	--------	--------	--------	--------	2, 600	78
Mullet	6, 300	189	--------	--------	2, 056, 800	65, 450	24, 300	729
Pigfish	--------	--------	--------	--------	700	7	--------	--------
Pompano	--------	--------	--------	--------	18, 500	1, 880	--------	--------
Shad	130, 100	19, 803	34, 600	5, 218	--------	--------	102, 500	15, 608
Sharks	231, 600	772	--------	--------	--------	--------	--------	--------
Spanish mackerel	--------	--------	--------	--------	135, 500	6, 775	5, 500	275
Spot	--------	--------	--------	--------	884, 800	16, 768	441, 300	6. 012
Squeteagues or "sea trout":								
Gray	2, 055, 900	75, 814	--------	--------	--------	--------	358, 000	13, 269
Spotted	23, 200	2, 008	--------	--------	124, 500	10, 600	34, 300	2, 751
Striped bass	96, 200	9, 358	1, 100	110	--------	--------	56, 200	5, 538
Sturgeon	100	10	--------	--------	--------	--------	100	10
Suckers	800	4	--------	--------	--------	--------	800	4
White perch	18, 600	747	3, 000	120	--------	--------	18, 700	751
Total	5, 634, 700	159, 427	87, 000	5, 954	3, 946, 000	135, 795	2, 354, 600	74, 283

Species	Lines							
	Hand		Troll		Trot with baits or snoods		Trot with hooks	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Catfish and bullheads	--------	--------	--------	--------	--------	--------	26, 000	$560
Sea bass	117, 700	$5, 735	--------	--------	--------	--------	--------	--------
Spanish mackerel	--------	--------	6, 400	$320	--------	--------	--------	--------
Crabs, hard	--------	--------	--------	--------	3, 229, 400	$51, 395	--------	--------
Total	117, 700	5, 735	6, 400	320	3, 229, 400	51, 395	26, 000	560

Fisheries of North Carolina, 1937—Continued

CATCH: BY GEAR—Continued

Species	Pound nets		Wheels		Fyke nets		Dip nets	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	4, 876, 800	$48, 960	30, 500	$305	53, 200	$538	19, 000	$190
Bluefish	45, 500	1, 936						
Bowfin	200	2			1, 200	19		
Butterfish	9, 800	263						
Carp	73, 600	1, 491			105, 200	2, 524		
Catfish and bullheads	294, 500	8, 387			269, 700	8, 228		
Croaker	2, 508, 500	25, 800						
Drum:								
Black	2, 100	21						
Red or redfish	26, 600	532						
Eels, common	500	24			200	4		
Flounders	133, 900	6, 695						
Gizzard shad	6, 700	67			2, 400	24		
Harvestfish or "starfish"	511, 100	8, 162						
Hickory shad	66, 900	1, 659			800	24		
Hogfish	8, 200	82						
King whiting or "kingfish"	8, 300	249						
Menhaden	24, 000	85						
Mullet	3, 000	90						
Pigfish	17, 600	176						
Pike or pickerel	200	6			200	8		
Pompano	300	45						
Shad	361, 900	54, 967						
Sheepshead	200	8						
Spanish mackerel	48, 000	2, 400						
Spot	47, 400	705						
Squeteagues or "sea trout":								
Gray	2, 972, 400	63, 185						
Spotted	49, 900	3, 751						
Striped bass	288, 700	27, 826			17, 400	1, 720		
Suckers	300	6			1, 100	22		
White perch	18, 900	856	1, 800	72	10, 000	390		
Yellow perch	700	26			3, 800	148		
Crabs, soft and peelers							49, 000	7, 768
Shrimp	41, 500	1, 245						
Total	12, 448, 200	259, 707	32, 300	377	465, 200	13, 649	68, 000	7, 958

Species	Otter trawls		Pots		Spears	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Carp			800	$16		
Catfish and bullheads			10, 300	206		
Croaker	28, 000	$430				
Eels, common			90, 000	2, 502		
Flounders	80, 300	4, 015			95, 000	$4, 750
King whiting or "kingfish"	75, 400	2, 262				
Squeteagues or "sea trout," gray	8, 000	320				
White perch			18, 000	720		
Crabs, hard	16, 200	143				
Shrimp	4, 140, 500	124, 197				
Turtles, snapper			1, 500	65		
Total	4, 348, 400	131, 367	120, 600	3, 509	95, 000	4, 750

Species	Dredges		Tongs		Rakes		By hand	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Clams, hard, public					430, 000	$34, 343		
Oysters, market:								
Public, spring	590, 700	$32, 222	43, 700	$2, 665			21, 500	$1, 180
Public, fall	1, 104, 000	64, 687	85, 700	6, 322			29, 000	1, 371
Private, spring	11, 500	431	13, 300	791				
Private, fall	20, 100	780	21, 400	1, 602				
Scallops, bay					61, 900	11, 680		
Total	1, 726, 300	98, 120	164, 100	11, 380	491, 900	46, 023	50, 500	2, 551

Fisheries of North Carolina, 1937—Continued

OPERATING UNITS: BY COUNTIES

Item	Beaufort	Bertie	Brunswick	Camden	Carteret	Chowan	Craven
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	106	--------	122	--------	527	--------	--------
On boats and shore:							
Regular	160	--------	433	--------	1, 302	--------	39
Casual	70	48	94	17	544	162	16
Total	336	48	649	17	2, 373	162	55
Vessels:							
Motor:							
5 to 10 tons	1	--------	21	--------	75	--------	--------
11 to 20 tons	--------	--------	2	--------	7	--------	--------
21 to 30 tons	--------	--------	--------	--------	3	--------	--------
31 to 40 tons	--------	--------	--------	--------	2	--------	--------
41 to 50 tons	--------	--------	2	--------	1	--------	--------
51 to 60 tons	--------	--------	--------	--------	4	--------	--------
61 to 70 tons	--------	--------	1	--------	--------	--------	--------
Total	1	--------	26	--------	92	--------	--------
Net tonnage	9	--------	326	--------	992	--------	--------
Sail:							
5 to 10 tons	30	--------	--------	--------	4	--------	--------
11 to 20 tons	7	--------	--------	--------	3	--------	--------
21 to 30 tons	2	--------	--------	--------	--------	--------	--------
Total	39	--------	--------	--------	7	--------	--------
Net tonnage	355	--------	--------	--------	78	--------	--------
Total vessels	40	--------	26	--------	99	--------	--------
Total net tonnage	364	--------	326	--------	1, 070	--------	--------
Boats:							
Motor	52	13	78	3	329	67	11
Other	69	2	151	12	692	7	15
Accessory boats	1	--------	9	--------	91	--------	--------
Apparatus:							
Purse seines, menhaden	--------	--------	3	--------	21	--------	--------
Length, yards	--------	--------	850	--------	5, 007	--------	--------
Haul seines:							
Common	6	2	24	--------	342	1	8
Length, yards	1, 200	2, 000	5, 000	--------	42, 575	360	1, 600
Long	4	--------	--------	--------	30	--------	--------
Length, yards	3, 800	--------	--------	--------	30, 000	--------	--------
Gill nets:							
Anchor	--------	--------	30	50	115	206	--------
Square yards	--------	--------	8, 400	5, 000	250, 500	72, 100	--------
Drift	--------	--------	11	--------	--------	--------	--------
Square yards	--------	--------	4, 400	--------	--------	--------	--------
Runaround	44	--------	111	--------	92	--------	6
Square yards	16, 600	--------	29, 400	--------	67, 250	--------	5, 800
Stake	272	--------	--------	82	1, 491	--------	540
Square yards	14, 700	--------	--------	5, 740	105, 650	--------	32, 400
Lines:							
Hand	--------	--------	--------	--------	17	--------	--------
Hooks	--------	--------	--------	--------	34	--------	--------
Troll	--------	--------	--------	--------	32	--------	--------
Hooks	--------	--------	--------	--------	32	--------	--------
Trot with baits or snoods	124	--------	44	--------	160	--------	--------
Baits or snoods	89, 500	--------	16, 600	--------	125, 200	--------	--------
Pound nets	77	150	--------	--------	105	920	19
Fyke nets	--------	--------	--------	30	--------	--------	--------
Dip nets	--------	--------	--------	--------	425	--------	--------
Otter trawls, shrimp	4	--------	61	--------	115	--------	--------
Yards at mouth	38	--------	1, 197	--------	1, 787	--------	--------
Pots, eel	55	--------	--------	--------	--------	--------	--------
Spears	--------	--------	95	--------	37	--------	--------
Dredges, oyster	102	--------	--------	--------	16	--------	--------
Yards at mouth	117	--------	--------	--------	17	--------	--------
Tongs, oyster	--------	--------	--------	--------	43	--------	--------
Rakes, other than for oysters	--------	--------	6	--------	1, 090	--------	--------

Fisheries of North Carolina, 1937—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Curri-tuck	Dare	Gates	Hert-ford	Hyde	Martin	New Hanover
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	--------	46	--------	--------	9	--------	--------
On boats and shore:							
Regular	110	723	--------	--------	201	--------	182
Casual	84	2	8	38	--------	123	246
Total	194	771	8	38	210	123	428
Vessels:							
Motor, 5 to 10 tons	--------	16	--------	--------	1	--------	--------
Net tonnage	--------	96	--------	--------	5	--------	--------
Sail, 5 to 10 tons	--------	--------	--------	--------	2	--------	--------
Net tonnage	--------	--------	--------	--------	14	--------	--------
Total vessels	--------	16	--------	--------	3	--------	--------
Total net tonnage	--------	96	--------	--------	19	--------	--------
Boats:							
Motor	70	281	3	10	81	17	43
Other	65	187	3	6	56	42	185
Accessory boats	--------	8	--------	--------	--------	--------	--------
Apparatus:							
Purse seines, other than for menhaden	--------	2	--------	--------	--------	--------	--------
Length, yards	--------	400	--------	--------	--------	--------	--------
Haul seines:							
Common	47	54	--------	6	6	2	24
Length, yards	14, 810	25, 000	--------	1, 200	1, 650	1, 200	3, 080
Long	--------	21	--------	--------	--------	--------	--------
Length, yards	--------	21, 000	--------	--------	--------	--------	--------
Gill nets:							
Anchor	165	544	3	2	6	--------	--------
Square yards	25, 300	211, 940	600	600	12, 800	--------	--------
Drift	--------	--------	2	7	--------	9	92
Square yards	--------	--------	400	1, 400	--------	9, 200	128, 800
Runaround	--------	50	--------	--------	19	--------	88
Square yards	--------	139, 000	--------	--------	16, 000	--------	17, 300
Stake	60	2, 170	--------	--------	462	--------	68
Square yards	4, 800	128, 400	--------	--------	48, 400	--------	5, 440
Lines:							
Hand	--------	--------	--------	--------	--------	--------	24
Hooks	--------	--------	--------	--------	--------	--------	24
Trot with baits or snoods	6	7	--------	--------	38	--------	77
Baits or snoods	6, 000	7, 000	--------	--------	24, 800	--------	25, 500
Trot with hooks	--------	--------	--------	--------	--------	12	3
Hooks	--------	--------	--------	--------	--------	650	1, 800
Pound nets	11	1, 198	14	32	195	--------	--------
Wheels	--------	--------	--------	--------	--------	10	--------
Fyke nets	265	--------	--------	--------	--------	--------	--------
Dip nets	10	--------	--------	--------	--------	30	--------
Pots:							
Eel	1, 185	120	--------	--------	--------	--------	--------
Fish	--------	--------	--------	--------	--------	54	--------
Turtle	68	--------	--------	--------	--------	--------	--------
Spears	--------	30	--------	--------	10	--------	80
Dredges, oyster	--------	--------	--------	--------	37	--------	--------
Yards at mouth	--------	--------	--------	--------	39	--------	--------
Tongs, oyster	--------	--------	--------	--------	3	--------	--------
Rakes, other than for oysters	--------	--------	--------	--------	--------	--------	12

Fisheries of North Carolina, 1937—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Onslow	Pamlico	Pasquotank	Pender	Perquimans	Tyrrell	Washington
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:							
On vessels	14	73	3	--------	--------	--------	--------
On boats and shore:							
Regular	180	257	23	127	8	14	--------
Casual	138	--------	32	45	75	108	110
Total	332	330	58	172	83	122	110
Vessels:							
Motor:							
5 to 10 tons	4	12	--------	--------	--------	--------	--------
11 to 20 tons	--------	--------	1	--------	--------	--------	--------
Total	4	12	1	--------	--------	--------	--------
Net tonnage	28	76	17	--------	--------	--------	--------
Sail:							
5 to 10 tons	--------	11	--------	--------	--------	--------	--------
11 to 20 tons	--------	2	--------	--------	--------	--------	--------
Total	--------	13	--------	--------	--------	--------	--------
Net tonnage	--------	102	--------	--------	--------	--------	--------
Total vessels	4	25	1	--------	--------	--------	--------
Total net tonnage	28	178	17	--------	--------	--------	--------
Boats:							
Motor	33	113	16	2	30	53	34
Other	129	54	5	52	25	43	18
Accessory boats	2	11	--------	--------	--------	--------	--------
Apparatus:							
Haul seines:							
Common	31	6	5	17	2	--------	2
Length, yards	4,610	1,200	1,100	3,040	200	--------	1,600
Long	--------	26	--------	--------	--------	--------	--------
Length, yards	--------	25,700	--------	--------	--------	--------	--------
Gill nets:							
Anchor	15	--------	190	--------	415	106	200
Square yards	30,200	--------	55,000	--------	186,000	63,600	88,000
Drift	--------	--------	--------	--------	--------	3	4
Square yards	--------	--------	--------	--------	--------	4,500	3,600
Runaround	109	24	1	21	--------	--------	--------
Square yards	54,560	28,800	2,200	3,200	--------	--------	--------
Stake	--------	405	32	--------	12	400	--------
Square yards	--------	32,400	2,400	--------	1,200	48,400	--------
Lines:							
Hand	76	--------	--------	--------	--------	--------	--------
Hooks	76	--------	--------	--------	--------	--------	--------
Trot with baits or snoods	115	90	--------	12	--------	--------	--------
Baits or snoods	60,700	81,600	--------	6,000	--------	--------	--------
Pound nets	--------	102	10	--------	96	78	76
Fyke nets	--------	--------	44	--------	42	176	--------
Dip nets	--------	--------	--------	--------	--------	--------	4
Otter trawls:							
Fish	--------	--------	1	--------	--------	--------	--------
Yards at mouth	--------	--------	20	--------	--------	--------	--------
Shrimp	1	13	--------	--------	--------	--------	--------
Yards at mouth	14	211	--------	--------	--------	--------	--------
Pots, eel	--------	--------	15	--------	22	--------	15
Spears	25	--------	--------	40	--------	--------	--------
Dredges, oyster	--------	141	--------	--------	--------	--------	--------
Yards at mouth	--------	113	--------	--------	--------	--------	--------
Tongs, oyster	60	14	--------	--------	--------	--------	--------

CATCH: BY COUNTIES

Species	Beaufort		Bertie		Brunswick		Camden	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	49,700	$497	1,108,000	$11,080	--------	--------	9,300	$144
Bluefish	--------	--------	--------	--------	68,000	$3,400	--------	--------
Bowfin	--------	--------	--------	--------	--------	--------	400	4
Carp	68,200	1,364	--------	--------	--------	--------	4,400	88
Catfish and bullheads	21,700	217	17,100	342	--------	--------	4,500	180
Croaker	143,100	1,431	--------	--------	34,100	341	--------	--------
Drum, red or redfish	3,300	44	--------	--------	1,300	26	--------	--------
Eels, common	15,600	468	--------	--------	--------	--------	--------	--------
Flounders	9,700	485	--------	--------	46,600	2,330	--------	--------
Gizzard shad	--------	--------	--------	--------	--------	--------	1,200	12

Fisheries of North Carolina, 1937—Continued

CATCH: BY COUNTIES—Continued

Species	Beaufort		Bertie		Brunswick		Camden	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Harvestfish or "starfish"	47,100	$706						
Hickory shad	2,100	42					2,400	$72
King whiting or "kingfish"					42,700	$1,281		
Menhaden					15,135,000	54,864		
Mullet	87,300	2,920			858,200	31,688	3,000	90
Shad	24,500	3,920	14,800	$2,220	7,300	1,168	1,200	184
Spadefish	200	3						
Spanish mackerel	3,000	150						
Spot	3,000	45			472,000	11,800		
Squeteagues or "sea trout":								
Gray	298,400	9,252						
Spotted	46,200	3,696			3,800	342		
Striped bass	59,500	4,780	11,500	1,150			8,800	714
Suckers							1,600	8
White perch	10,900	436	8,100	333			1,100	55
Yellow perch							100	5
Crabs, hard	1,140,000	17,100			132,000	2,640		
Shrimp	63,600	1,908			2,061,600	61,713		
Clams, hard, public					3,200	364		
Oysters, market:								
Public, spring	273,900	16,529			4,400	345		
Public, fall	527,100	32,010						
Total	2,898,100	98,003	1,159,500	15,125	18,870,200	172,302	38,000	1,556

Species	Carteret		Chowan		Craven		Currituck	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	3,000	$30	3,318,200	$33,182	3,800	$57	6,200	$94
Bluefish	1,071,000	53,550						
Bonito	900	14						
Bowfin							1,100	11
Butterfish	200	4						
Carp			3,200	63	3,400	68	111,800	2,236
Catfish and bullheads	300	12	47,300	946	2,000	40	25,800	878
Cero	200	8						
Croaker	2,789,300	42,714			192,700	2,879	2,200	33
Drum:								
Black	27,400	876						
Red or redfish	293,800	11,696						
Eels, common							64,200	1,664
Flounders	52,000	2,600					2,100	105
Gizzard shad							23,000	230
Harvestfish or "starfish"	46,600	932						
Hickory shad	34,800	696	8,000	240	7,200	144	500	15
King whiting or "kingfish"	487,300	14,622					8,000	160
Menhaden	46,541,000	164,551						
Mullet	1,560,000	46,800			46,600	1,864	1,100	33
Pigfish	17,600	263						
Pinfish or sailors choice	37,000	555						
Pompano	26,600	2,662						
Sea bass	54,500	2,575						
Shad	4,200	630	43,100	6,350	600	90	24,800	3,835
Sharks	231,600	772						
Sheepshead	11,100	333						
Spadefish	35,400	1,062						
Spanish mackerel	128,600	6,430						
Spot	1,748,200	26,218						
Squeteagues or "sea trout":								
Gray	2,583,200	103,358					2,000	60
Spotted	132,000	11,880			22,200	1,776	200	18
Striped bass			9,800	980	1,100	110	83,500	8,532
White perch	1,600	24	3,300	165			48,900	1,920
Yellow perch							3,400	136
Crabs:								
Hard	602,100	9,329					94,300	1,213
Soft and peelers	132,600	21,220					9,200	1,380
Shrimp	1,956,000	58,677						
Clams, hard, public	424,400	33,799						
Oysters, market:								
Public, spring	87,500	3,497						
Public, fall	156,000	6,494						
Private, spring	11,500	431						
Private, fall	20,100	780						
Scallops, bay	61,900	11,680						
Turtles, snapper							1,500	65
Total	61,371,500	641,774	3,432,900	41,926	279,600	7,028	513,800	22,618

Fisheries of North Carolina, 1937—Continued

CATCH: By counties—Continued

Species	Dare		Gates		Hertford		Hyde	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	82, 500	$987	110, 000	$1, 100	300, 000	$3, 000		
Bluefish	336, 200	16, 471					93, 000	$4, 150
Bowfin	200	2						
Butterfish	10, 100	304						
Carp	53, 200	1, 064						
Catfish and bullheads	8, 900	288			5, 000	100		
Croaker	3, 294, 000	35, 476					1, 081, 400	10, 814
Drum:								
Black	7, 000	70						
Red or redfish	75, 700	1, 544					5, 000	100
Eels, common	8, 100	328						
Flounders	122, 200	6, 110					10, 200	510
Gizzard shad	400	4						
Harvestfish or "starfish"	222, 600	3, 860					141, 000	2, 116
Hickory shad	70, 100	2, 103						
Hogfish	10, 200	102						
King whiting or "kingfish"	89, 800	2, 704						
Menhaden	30, 000	116						
Mullet	99, 400	2, 979					37, 500	1, 125
Pigfish	14, 100	197						
Pinfish or sailors choice	400	4						
Pompano	20, 700	2, 175						
Shad	382, 600	58, 573	3, 300	495	7, 100	1, 065	3, 500	560
Sheepshead	1, 500	60						
Spadefish	4, 800	96						
Spanish mackerel	57, 400	2, 870					15, 300	765
Spot	325, 000	4, 875					60, 600	908
Squeteagues or "sea trout":								
Gray	2, 336, 800	54, 385					1, 005, 500	20, 290
Spotted	428, 600	36, 051					19, 200	1, 536
Striped bass	367, 100	36, 697	2, 000	200	3, 500	350	1, 500	120
Sturgeon	600	60						
Suckers	300	6						
White perch	23, 100	949	800	40				
Yellow perch					200	6		
Crabs, hard	56, 800	849					350, 000	5, 249
Shrimp	33, 400	1, 002					4, 700	141
Oysters, market:								
Public, spring							43, 700	2, 622
Public, fall							62, 600	3, 906
Total	8, 573, 800	273, 361	116, 100	1, 835	315, 800	4, 521	2, 934, 700	54, 912

Species	Martin		New Hanover		Onslow	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	109, 500	$1, 095				
Bluefish			1, 000	$50		
Carp	1, 400	28				
Catfish and bullheads	34, 300	686	2, 000	80		
Croaker			12, 000	120	36, 900	$369
Drum, red or redfish					6, 600	132
Flounders			16, 000	800	38, 100	1, 905
King whiting or "kingfish"					76, 100	2, 283
Mullet			257, 600	10, 304	408, 300	12, 249
Sea bass			12, 200	610	51, 000	2, 550
Shad	1, 200	180	27, 200	4, 080		
Spot			709, 600	17, 730	602, 500	9, 036
Squeteagues or "sea trout":						
Gray					30, 000	900
Spotted					72, 800	5, 824
Striped bass	1, 000	80				
White perch	25, 300	1, 012				
Crabs, hard			120, 100	2, 402	240, 300	4, 806
Shrimp					12, 000	480
Clams, hard, public			2, 400	180		
Oysters, market:						
Public, spring			9, 600	360	37, 600	2, 264
Public, fall			20, 000	771	60, 400	4, 528
Private, spring					13, 300	791
Private, fall					21, 400	1, 602
Total	172, 700	3, 081	1, 189, 700	37, 487	1, 707, 300	49, 719

Fisheries of North Carolina, 1937—Continued

CATCH: BY COUNTIES—Continued

Species	Pamlico		Pasquotank		Pender	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	4,000	$60	8,500	$85		
Bluefish	87,800	4,390				
Bowfin			500	5		
Butterfish	3,100	62				
Carp			6,000	120		
Catfish and bullheads			169,400	5,082		
Croaker	2,362,600	23,626	39,600	546		
Drum:						
Black			200	6		
Red or redfish	25,300	253	8,900	356	21,300	$626
Eels, common			900	21		
Flounders	44,800	2,240	30,200	1,510	22,200	1,110
Gizzard shad			6,300	63		
Harvestfish or "starfish"	183,600	2,754				
Hickory shad			8,000	239	4,700	94
King whiting or "kingfish"	4,600	138	13,600	408		
Mullet	49,200	1,476	2,400	72	554,400	22,176
Pigfish	14,000	140	30,500	305		
Pike or pickerel			200	8		
Pompano	3,300	330				
Shad	12,200	1,830	44,000	6,600		
Sheepshead	1,200	48				
Spanish mackerel	14,300	715				
Spot	657,100	6,771	4,400	66	687,300	13,746
Squeteagues or "sea trout":						
Gray	1,248,400	24,968	19,200	768		
Spotted	154,000	10,780	1.500	150	19,700	1,576
Striped bass			28,800	2,592		
Suckers			1,100	22		
White perch			500	25		
Crabs, hard	450,000	6,750			60,000	1,200
Shrimp	50,700	1,521			2,000	60
Oysters, market:						
Public, spring	194,200	10,150			5,000	300
Public, fall	388,600	24,421			4,000	250
Total	5,953,000	123,423	424,700	19,049	1,380,600	41,138

Species	Perquimans		Tyrrell		Washington	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	136,000	$1,360	181,000	$1,810	388,000	$3,880
Bowfin	700	14	200	2		
Carp	5,900	118	48,000	1,380	18,700	394
Catfish and bullheads	202,100	6,563	85,900	2,504	27,000	560
Eels, common	1,100	22			1,200	36
Flounders	9,500	475	200	10		
Gizzard shad	4,400	44	2,400	24		
Hickory shad	7,500	225	1,800	54	13,200	396
Mullet	8,200	246	700	21		
Pigfish			4,200	42		
Pike or pickerel	200	6				
Shad	49,200	7,245	22,400	3,360	25,200	3,766
Squeteagues or "sea trout":						
Gray			1,600	48		
Spotted			900	72		
Striped bass	29,100	2,549	82,300	8,230	23,400	2,340
White perch	2,500	125	20,300	797	15,000	600
Yellow perch			2,500	95	500	20
Total	456,400	18,992	454,400	18,449	512,200	11,992

SEED OYSTER FISHERY: BY GEAR

Item	Oyster dredges	
OPERATING UNITS	*Number*	
Fishermen, on boats and shore, regular	17	
Boats, sail	8	
Apparatus, number	14	
Yards at mouth	14	
CATCH	*Bushels*	*Value*
Oysters, seed, public, spring	8,000	$1,760

NOTE.—Of the persons and gear employed in the seed oyster fishery all fishermen and boats are duplicated among those in the market oyster fishery or fisheries for other species. The seed oyster fishery in North Carolina is confined to Hyde County.

SOUTH CAROLINA

Fisheries of South Carolina, 1937

OPERATING UNITS: BY GEAR

Item	Haul seines	Gill nets				Lines		Cast nets
		Anchor	Drift	Run-around	Stake	Hand	Trot with baits or snoods	
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels						24		
On boats and shore:								
Regular	70			60		46	161	23
Casual	76	255	64	30	34	29	12	2
Total	146	255	64	90	34	99	173	25
Vessels:								
Motor, 5 to 10 tons						3		
Net tonnage						26		
Sail, 11 to 20 tons						1		
Net tonnage						12		
Total vessels						4		
Total net tonnage						38		
Boats:								
Motor		2		13		11		
Other	37	150	33	51	17	17	98	20
Accessory boats						12		
Apparatus:								
Number	39	195	33	51	17	123	98	25
Length, yards	5,920							
Square yards		139,900	40,050	22,730	11,304			
Hooks, baits, or snoods						222	49,200	

Item	Otter trawls		Pots, fish	Spears	Dredges, oyster	Grabs	By hand		Total, exclusive of duplication
	Fish	Shrimp					Oyster	Other	
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	3	27			3				52
On boats and shore:									
Regular		62		70		135	238	5	635
Casual			12	25			87	26	613
Total	3	89	12	95	3	135	325	31	1,300
Vessels, motor:									
5 to 10 tons	1	7			1				11
11 to 20 tons		1							1
21 to 30 tons		2							2
Total	1	10			1				14
Net tonnage	10	126			6				158
Sail, 11-20 tons									1
Net tonnage									12
Total vessels	1	10			1				15
Total net tonnage	10	126			6				170
Boats:									
Motor		29							55
Other			6	70		135	147	11	668
Accessory boats									12
Apparatus:									
Number	1	39	76	95	1	135			
Yards at mouth	23	795			2				

Fisheries of South Carolina, 1937—Continued

CATCH: BY GEAR

Species	Haul seines		Gill nets					
			Anchor		Drift		Runaround	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Bluefish	1,500	$120					1,200	$96
Drum:								
Black	28,000	1,000					6,000	280
Red or redfish	70,000	3,120					48,500	3,135
Flounders							2,500	150
Hickory shad					1,200	$18		
King whiting or "kingfish"	61,000	1,740						
Mullet	462,000	16,250					165,000	6,000
Shad	800	150	68,800	$16,652	20,900	4,920		
Sheepshead							5,000	100
Spot	206,500	5,515					38,500	1,140
Squeteagues or "sea trout":								
Gray							3,500	245
Spotted	51,000	4,570					17,500	1,660
Sturgeon					24,700	2,027		
Terrapin, diamond-back	4,900	493						
Total	885,700	32,958	68,800	16,652	46,800	6,965	287,700	12,806

Species	Gill nets—Continued		Lines				Cast nets	
	Stake		Hand		Trot with baits or snoods			
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Bluefish			27,100	$2,147				
Grunts			5,000	150				
Hickory shad	4,100	$84						
King whiting or "kingfish"			42,000	2,100				
Sea bass			233,200	13,100				
Sea catfish			120,000	3,600				
Shad	47,100	8,028						
Sharks			15,000	150				
Squeteagues or "sea trout," spotted			12,500	1,000				
Crabs, hard					1,226,500	$18,408		
Shrimp							49,000	$1,470
Total	51,200	8,112	454,800	22,247	1,226,500	18,408	49,000	1,470

Species	Otter trawls		Pots		Spears	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Butterfish	200	$6				
Catfish and bullheads			51,000	$1,865		
Croaker	900	16				
Flounders	19,900	2,055			35,300	$2,968
King whiting or "kingfish"	3,400	52				
Porgies	1,900	32				
Sea bass	800	80				
Squeteagues or "sea trout," gray	2,200	26				
Shrimp	1,151,700	34,551				
Total	1,181,000	36,818	51,000	1,865	35,300	2,968

Species	Dredges		Grabs		By hand	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Crabs, soft and peelers					8,300	$1,230
Clams, hard, public					7,900	491
Oysters, market:						
Private, spring	25,300	$949	860,800	$32,471	612,000	21,697
Private, fall	17,800	670	751,600	28,337	544,100	20,594
Total	43,100	1,619	1,612,400	60,808	1,172,300	44,012

Fisheries of South Carolina, 1937—Continued

OPERATING UNITS: By counties

Item	Beaufort	Charleston	Colleton	Georgetown	Horry	Jasper
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	5	45		2		
On boats and shore:						
Regular	295	209		70	34	27
Casual	103	117	66	256	71	
Total	403	371	66	328	105	27
Vessels:						
Motor:						
5 to 10 tons	2	8		1		
11 to 20 tons		1				
21 to 30 tons		2				
Total	2	11		1		
Net tonnage	15	134		9		
Sail, 11 to 20 tons		1				
Net tonnage		12				
Total vessels	2	12		1		
Total net tonnage	15	146		9		
Boats:						
Motor	13	21		18	2	1
Other	242	181	33	148	48	16
Accessory boats		12				
Apparatus:						
Haul seines	2	5		17	15	
Length, yards	400	600		2,140	2,780	
Gill nets:						
Anchor	49	52	53	41		
Square yards	7,350	34,550	34,800	63,200		
Drift			4	29		
Square yards			2,350	37,700		
Runaround	1	4		33	12	1
Square yards	600	1,370		17,160	3,000	600
Stake				9	8	
Square yards				9,084	2,220	
Lines:						
Hand		99		9	15	
Hooks		150		27	45	
Trot with baits or snoods	58	40				
Baits or snoods	30,400	18,800				
Cast nets		25				
Otter trawls:						
Fish	1					
Yards at mouth	23					
Shrimp	14	18		7		
Yards at mouth	280	386		129		
Pots, fish	50			26		
Spears	35	10		45	5	
Dredges, oyster		1				
Yards at mouth		2				
Grabs	78	57				

Fisheries of South Carolina, 1937—Continued

CATCH: BY COUNTIES

Species	Beaufort		Charleston		Colleton	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Bluefish			27,100	$2,147		
Butterfish	200	$6				
Catfish and bullheads	16,000	640				
Croaker	900	16				
Drum:						
Black	20,000	600	2,000	80		
Red or redfish	51,000	2,050	30,000	2,100		
Flounders	31,900	3,135	4,500	270		
Grunts			5,000	150		
King whiting or "kingfish"	38,400	752	42,000	2,100		
Mullet	26,000	820	12,000	480		
Porgies	1,900	32				
Sea bass	800	80	214,200	11,310		
Sea catfish			120,000	3,600		
Shad	4,000	800	15,800	3,150	16,200	$3,240
Sharks			15,000	150		
Sheepshead			5,000	100		
Spot	6,000	130	1,500	30		
Squeteagues or "sea trout":						
Gray	2,200	26				
Spotted	43,500	3,940	18,500	1,600		
Sturgeon					1,700	187
Crabs:						
Hard	838,500	12,574	388,000	5,834		
Soft and peelers			8,300	1,230		
Shrimp	400,600	12,018	678,400	20,352		
Clams, hard, public			1,800	114		
Oysters, market:						
Private, spring	863,000	32,049	587,400	21,280		
Private, fall	670,100	25,468	607,200	22,775		
Terrapin, diamond-back			4,900	493		
Total	3,015,000	95,136	2,788,600	99,345	17,900	3,427

Species	Georgetown		Horry		Jasper	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Bluefish	2,700	$216				
Catfish and bullheads	35,000	1,225				
Drum:						
Black	12,000	600				
Red or redfish	35,500	2,005			2,000	$100
Flounders	20,000	1,690	1,300	$78		
Hickory shad	3,800	57	1,500	45		
King whiting or "kingfish"			26,000	1,040		
Mullet	412,000	14,730	171,000	5,980	6,000	240
Sea bass	8,000	800	11,000	990		
Shad	94,900	21,220	6,700	1,340		
Spot	152,000	4,240	83,500	2,195	2,000	60
Squeteagues or "sea trout":						
Gray	3,500	245				
Spotted	15,000	1,350	3,000	240	1,000	100
Sturgeon	23,000	1,840				
Shrimp	121,700	3,651				
Clams, hard, public			6,100	377		
Oysters, market:						
Private, spring	10,600	398			37,100	1,390
Private, fall	2,800	105			33,400	1,253
Total	952,500	54,372	310,100	12,285	81,500	3,143

GEORGIA

Fisheries of Georgia, 1937

OPERATING UNITS: BY GEAR

Item	Purse seines, menhaden	Haul seines	Gill nets				Lines	
			Anchor	Drift	Run-around	Stake	Hand	Trot with baits or snoods
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	48							
On boats and shore:								
Regular		18		18	18		12	217
Casual		4	14	290	16	92	50	25
Total	48	22	14	308	34	92	62	242
Vessels, motor:								
21 to 30 tons	1							
61 to 70 tons	1							
Total	2							
Net tonnage	92							
Boats:								
Motor				11	7			20
Other		11	7	148	24	52	39	171
Accessory boats	6							
Apparatus:								
Number	2	11	34	159	34	216	310	232
Length, yards	600	992						
Square yards			1, 530	75, 015	13, 200	21, 904		
Hooks, baits, or snoods							310	99, 250

Item	Lines—Contd.	Otter trawls, shrimp	Pots		Tongs, oyster	Grabs	By hand		Total, exclusive of duplication
	Trot with hooks		Crab	Fish			Oyster	Other	
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels		139							187
On boats and shore:									
Regular		366	69	6	10	15	10		702
Casual	42			8	17	20	20	20	543
Total	42	505	69	14	27	35	30	20	1, 432
Vessels, motor:									
5 to 10 tons		61							61
11 to 20 tons		5							5
21 to 30 tons									1
61 to 70 tons									1
Total		66							68
Net tonnage		480							572
Boats:									
Motor		179	2	10					227
Other	36		54	4	27	35	30		548
Accessory boats									6
Apparatus:									
Number	91	245	655	84	27	35			
Yards at mouth		4, 686							
Hooks, baits, or snoods	10, 900								

Fisheries of Georgia, 1937—Continued

CATCH: BY GEAR

Species	Purse seines		Haul seines		Gill nets			
					Anchor		Drift	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Hickory shad							12,900	$375
Menhaden	9,864,000	$23,330						
Mullet			2,000	$40				
Shad					6,000	$1,050	156,600	25,488
Spot			2,000	30				
Squeteagues or "sea trout," spotted			5,000	450				
Sturgeon							7,600	1,309
Terrapin, diamond-back			7,500	775				
Total	9,864,000	23,330	16,500	1,295	6,000	1,050	177,100	27,172

Species	Gill nets—Continued				Lines			
	Runaround		Stake		Hand		Trot with baits or snoods	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Croaker	3,000	$120						
Drum:								
Black	7,000	280						
Red or redfish	37,500	1,960						
Hickory shad			500	$17				
King whiting or "kingfish"	6,000	90						
Mullet	16,000	400						
Shad			30,500	5,505				
Sheepshead	8,000	240						
Spot	3,000	45						
Squeteagues or "sea trout," spotted	60,000	5,400						
Crabs, hard					141,400	$2,121	1,711,000	$26,215
Total	140,500	8,535	31,000	5,522	141,400	2,121	1,711,000	26,215

Species	Lines—Continued		Otter trawls		Pots	
	Trot with hooks					
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Catfish and bullheads	22,500	$1,275			68,000	$3,400
Eels, common					4,000	480
Flounders			14,100	$705		
King whiting or "kingfish"			95,600	1,425		
Crabs, hard			12,500	188	393,000	5,897
Shrimp			9,503,900	284,065		
Total	22,500	1,275	9,626,100	286,383	465,000	9,777

Species	Tongs		Grabs		By hand	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Oysters, market:						
Private, spring	42,900	$2,284	43,200	$2,472	48,200	$2,329
Private, fall	28,900	1,495	35,000	2,000	40,800	1,996
Terrapin, diamond-back					2,500	325
Total	71,800	3,779	78,200	4,472	91,500	4,650

Fisheries of Georgia, 1937—Continued

OPERATING UNITS: BY COUNTIES

Item	Bryan	Bullock	Camden	Charlton	Chatham	Effingham
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels			64		52	
On boats and shore:						
Regular			102		141	
Casual	52	24	20	12	188	14
Total	52	24	186	12	381	14
Vessels, motor:						
5 to 10 tons			6		22	
11 to 20 tons			2		1	
21 to 30 tons			1			
61 to 70 tons			1			
Total			10		23	
Net tonnage			163		177	
Boats:						
Motor			22		56	
Other	26	12	70	6	146	7
Accessory boats			6			
Apparatus:						
Purse seines, menhaden			2			
Length, yards			600			
Haul seines					6	
Length, yards					492	
Gill nets:						
Anchor						34
Square yards						1,530
Drift	19		8		54	
Square yards	8,550		4,480		18,460	
Runaround					14	
Square yards					7,000	
Stake	34	120	6	6		
Square yards	4,000	4,800	7,200	3,360		
Lines:						
Hand					310	
Hooks					310	
Trot with baits or snoods			55		24	
Baits or snoods			27,500		7,200	
Trot with hooks		25				
Hooks		2,500				
Otter trawls, shrimp			28		72	
Yards at mouth			522		1,445	
Pots, crab			50		180	
Tongs, oyster					19	

Item	Glynn	Liberty	Long	McIntosh	Screven	Tattnall	Wayne
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	67			4			
On boats and shore:							
Regular	190	49		220			
Casual	67	15	8	70	12	42	19
Total	324	64	8	294	12	42	19
Vessels, motor:							
5 to 10 tons	31			2			
11 to 20 tons	2						
Total	33			2			
Net tonnage	220			12			
Boats:							
Motor	71			69		7	2
Other	87	39	5	115	12	14	9
Apparatus:							
Haul seines	5						
Length, yards	500						
Gill nets:							
Drift	29		3	24		15	7
Square yards	21,050		400	16,390		5,125	560
Runaround	20						
Square yards	6,200						
Stake			8		24	16	2
Square yards			480		1,200	800	64

Fisheries of Georgia, 1937—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Glynn	Liberty	Long	McIntosh	Screven	Tattnall	Wayne
Apparatus—Continued							
Lines:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Trot with baits or snoods	52	45		56			
Baits or snoods	28, 800	13, 500		22, 250			
Trot with hooks			6		8	40	12
Hooks			600		600	6, 000	1, 200
Otter trawls, shrimp	84			61			
Yards at mouth	1, 549			1, 170			
Pots:							
Crab	280	60		85			
Fish				84			
Tongs, oyster	4			4			
Grabs				35			

CATCH: BY COUNTIES

Species	Bryan		Bullock		Camden		Charlton	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Catfish and bullheads			2,000	$100				
Menhaden					9, 864, 000	$23, 330		
Shad	27, 000	$4, 950	3, 300	660	17, 900	2, 685	7, 500	$1, 125
Sturgeon					1, 200	120		
Crabs, hard					300, 000	4, 500		
Shrimp					1, 479, 800	44, 412		
Total	27, 000	4, 950	5, 300	760	11, 662, 900	75, 047	7, 500	1, 125

Species	Chatham		Effingham		Glynn		Liberty	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Croaker					3, 000	$120		
Drum:								
Black					7, 000	280		
Red or redfish	8, 500	$510			29, 000	1, 450		
Flounders	9, 300	465			4, 800	240		
Hickory shad	5, 000	150			4, 000	80		
King whiting or "kingfish"	65, 300	980			36, 300	535		
Mullet	8, 000	240			10, 000	200		
Shad	72, 300	12, 300	6, 000	$1, 050	33, 400	3, 890		
Sheepshead					8, 000	240		
Spot	3, 000	45			2, 000	30		
Squeteagues or "sea trout," spotted	40, 000	3, 600			25, 000	2, 250		
Sturgeon	300	22						
Crabs, hard	464, 300	6, 817			759, 800	12, 397	183, 800	$2, 757
Shrimp	3, 067, 100	91, 913			2, 904, 600	86, 168		
Oysters, market:								
Private, spring	65, 700	3, 287			5, 000	293	6, 900	262
Private, fall	61, 600	3, 081			4, 500	275	3, 600	135
Terrapin, diamond-back	5, 000	650			5, 000	450		
Total	3, 875, 400	124, 060	6, 000	1, 050	3, 841, 400	108, 898	194, 300	3, 154

Species	Long		McIntosh		Screven		Tattnall		Wayne	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Catfish and bullheads	1, 500	$100	68, 000	$3, 400	1, 500	$90	10, 000	$500	7, 500	$485
Eels, common			4, 000	480						
Hickory shad	200	4	800	23					3, 400	135
Shad	2, 000	400	8, 100	1, 863	3, 300	600	6, 500	1, 300	5, 800	1, 220
Sturgeon			6, 000	1, 140					100	27
Crabs, hard			550, 000	7, 950						
Shrimp			2, 052, 400	61, 572						
Oysters, market:										
Private, spring			56, 700	3, 243						
Private, fall			35, 000	2, 000						
Total	3, 700	504	2, 781, 000	81, 671	4, 800	690	16, 500	1, 800	16, 800	1, 867

FLORIDA

Fisheries of Florida, 1937

OPERATING UNITS: BY GEAR

Item	Purse seines, menhaden	Haul seines	Gill nets				Trammel nets	Lines
			Anchor	Drift	Run-around	Stake		Hand
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	412		2		3			503
On boats and shore:								
Regular		1,010	31	134	2,439	2	781	786
Casual		173		12	112	12	26	587
Total	412	1,183	33	146	2,554	14	807	1,876
Vessels, motor:								
5 to 10 tons					1			23
11 to 20 tons			1					16
21 to 30 tons								4
31 to 40 tons	11							
41 to 50 tons	4							6
51 to 60 tons	2							3
61 to 70 tons	1							10
71 to 80 tons	1							4
81 to 90 tons	1							1
91 to 100 tons								1
Total	20		1		1			68
Net tonnage	905		15		10			2,033
Boats:								
Motor		275	15	59	1,080	2	325	598
Other		311	15	72	1,871	6	421	219
Accessory boats	60							1
Apparatus:								
Number	20	277	26	93	2,161	8	566	1,889
Length, yards	5,670	156,745						
Square yards			22,380	139,400	2,233,076	7,600	557,400	
Hooks, baits, or snoods								2,522

Item	Lines-Continued				Pound nets	Fyke nets	Dip nets		Cast nets	Otter trawls
	Trawl	Troll	Trot with baits or snoods	Trot with hooks			Common	Drop		Fish
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	2									11
On boats and shore:										
Regular	12	626	176	189	12	2	50		196	2
Casual		227	27	48			46	4	36	
Total	14	853	203	237	12	2	96	4	232	13
Vessels, motor:										
5 to 10 tons										2
11 to 20 tons	1									2
Total	1									4
Net tonnage	15									47
Boats:										
Motor	6	419	102	91	9	1	13		10	1
Other		1	74	146	1		29	1	80	
Apparatus:										
Number	15	993	212	237	21	8	83	26	232	5
Yards at mouth										122
Hooks, baits, or snoods	800	993	95,900	81,850						

Fisheries of Florida, 1937—Continued

OPERATING UNITS: BY GEAR—Continued

Item	Otter trawls—Contd.	Pots				Spears	Dredges			Tongs, oyster
	Shrimp	Crab	Eel	Fish	Sea craw-fish		Clam	Oyster	Scallop	
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	413	--------	--------	--------	--------	--------	--------	--------	--------	--------
On boats and shore:										
Regular	292	85	3	48	43	39	12	9	27	301
Casual	10	17	--------	--------	1	45	--------	--------	--------	78
Total	715	102	3	48	44	84	12	9	27	379
Vessels, motor:										
5 to 10 tons	149	--------	--------	--------	--------	--------	--------	--------	--------	--------
11 to 20 tons	19	--------	--------	--------	--------	--------	--------	--------	--------	--------
21 to 30 tons	1	--------	--------	--------	--------	--------	--------	--------	--------	--------
Total	169	--------	--------	--------	--------	--------	--------	--------	--------	--------
Net tonnage	1,305	--------	--------	--------	--------	--------	--------	--------	--------	--------
Boats:										
Motor	149	53	3	21	33	--------	--------	3	17	88
Other	--------	5	--------	26	--------	18	--------	--------	6	199
Apparatus:										
Number	318	5,783	90	4,920	2,075	84	1	3	37	315
Yards at mouth	6,163	--------	--------	--------	--------	--------	--------	3	27	--------

Item	Rakes, oyster	Forks	Grabs	Coquina scoops	Hooks		Diving outfits	By hand		Total exclusive of duplication
					Sponge	Conch		Oysters	Other	
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	--------	--------	2	--------	--------	--------	49	--------	--------	1,369
On boats and shore:										
Regular	--------	5	14	--------	380	2	520	34	28	5,853
Casual	1	7	2	3	--------	1	--------	9	44	1,372
Total	1	12	18	3	380	3	569	43	72	8,594
Vessels, motor:										
5 to 10 tons	--------	--------	1	--------	--------	--------	4	--------	--------	173
11 to 20 tons	--------	--------	--------	--------	--------	--------	3	--------	--------	38
21 to 30 tons	--------	--------	--------	--------	--------	--------	--------	--------	--------	5
31 to 40 tons	--------	--------	--------	--------	--------	--------	--------	--------	--------	11
41 to 50 tons	--------	--------	--------	--------	--------	--------	--------	--------	--------	10
51 to 60 tons	--------	--------	--------	--------	--------	--------	--------	--------	--------	5
61 to 70 tons	--------	--------	--------	--------	--------	--------	--------	--------	--------	11
71 to 80 tons	--------	--------	--------	--------	--------	--------	--------	--------	--------	5
81 to 90 tons	--------	--------	--------	--------	--------	--------	--------	--------	--------	2
91 to 100 tons	--------	--------	--------	--------	--------	--------	--------	--------	--------	1
Total	--------	--------	1	--------	--------	--------	7	--------	--------	261
Net tonnage	--------	--------	6	--------	--------	--------	75	--------	--------	4,307
Boats:										
Motor	--------	--------	6	--------	--------	--------	65	--------	--------	2,331
Other	1	--------	8	--------	256	3	--------	39	--------	3,196
Accessory boats	--------	--------	--------	--------	--------	--------	--------	--------	--------	61
Apparatus, number	1	9	11	2	256	3	72	--------	--------	--------

Fisheries of Florida, 1937—Continued

CATCH: BY GEAR

Species	Purse seines		Haul seines		Gill nets			
					Anchor		Drift	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	--------	--------	400,000	$1,999	--------	--------	--------	--------
Amberjack	--------	--------	2,000	45	--------	--------	--------	--------
Bluefish	--------	--------	562,200	18,493	--------	--------	18,500	$1,070
Blue runner or hardtail	--------	--------	633,000	6,434	--------	--------	--------	--------
Catfish and bullheads	--------	--------	2,820,600	105,601	--------	--------	--------	--------
Cigarfish	--------	--------	16,800	341	--------	--------	--------	--------
Crappie	--------	--------	350,100	11,849	--------	--------	--------	--------
Crevalle	--------	--------	72,900	1,088	--------	--------	--------	--------
Croaker	--------	--------	23,400	370	--------	--------	--------	--------
Drum:								
Black	--------	--------	50,600	1,096	--------	--------	--------	--------
Red or redfish	--------	--------	173,500	6,177	--------	--------	--------	--------
Flounders	--------	--------	32,500	1,331	--------	--------	--------	--------
Groupers	--------	--------	500	15	--------	--------	--------	--------
Grunts	--------	--------	3,000	60	--------	--------	--------	--------
Hickory shad	--------	--------	51,000	1,520	--------	--------	--------	--------
Jewfish	--------	--------	11,400	341	--------	--------	--------	--------
Kingfish or "king mackerel"	--------	--------	42,900	858	--------	--------	--------	--------
King whiting or "kingfish"	--------	--------	81,400	1,235	--------	--------	--------	--------
Menhaden	139,679,000	$371,298	109,000	1,672	--------	--------	--------	--------
Mojarra	--------	--------	87,600	1,779	--------	--------	--------	--------
Mullet	--------	--------	6,622,600	211,425	--------	--------	--------	--------
Permit	--------	--------	3,600	103	--------	--------	--------	--------
Pigfish	--------	--------	26,200	407	--------	--------	--------	--------
Pinfish or sailors choice	--------	--------	2,000	30	--------	--------	--------	--------
Pompano	--------	--------	51,200	10,825	--------	--------	--------	--------
Sea catfish	--------	--------	11,700	170	--------	--------	--------	--------
Shad	--------	--------	170,100	11,746	6,300	$693	105,400	10,441
Sharks	--------	--------	--------	--------	670,000	4,374	--------	--------
Sheepshead	--------	--------	165,700	4,227	--------	--------	--------	--------
Skates	--------	--------	3,000	15	--------	--------	--------	--------
Snapper, mangrove	--------	--------	36,000	1,139	--------	--------	--------	--------
Snook or sergeantfish	--------	--------	96,400	3,783	--------	--------	--------	--------
Spadefish	--------	--------	1,800	42	--------	--------	--------	--------
Spanish mackerel	--------	--------	810,100	27,282	--------	--------	11,500	518
Spot	--------	--------	68,400	1,169	--------	--------	--------	--------
Squeteagues or "sea trout":								
Spotted	--------	--------	469,000	29,328	--------	--------	--------	--------
White	--------	--------	37,500	1,782	--------	--------	--------	--------
Sturgeon	--------	--------	--------	--------	12,000	1,200	19,200	1,921
Sunfish	--------	--------	823,300	23,622	--------	--------	--------	--------
Tenpounder	--------	--------	418,400	7,620	--------	--------	--------	--------
Tripletail	--------	--------	22,200	335	--------	--------	--------	--------
Turtles:								
Green	--------	--------	--------	--------	10,000	400	--------	--------
Soft-shell	--------	--------	105,900	2,089	--------	--------	--------	--------
Total	139,679,000	371,298	15,469,500	499,443	698,300	6,667	154,600	13,95

Species	Gill nets—Continued				Trammel nets		Lines	
	Runaround		Stake				Hand	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Amberjack	--------	--------	--------	--------	--------	--------	19,500	$297
Angelfish	400	$14	--------	--------	2,900	$101	1,700	45
Bluefish	2,825,900	142,500	--------	--------	25,700	1,330	113,300	5,842
Blue runner or hardtail	51,300	1,067	--------	--------	52,400	673	4,600	111
Cabio or crab eater	300	7	--------	--------	--------	--------	1,500	45
Catfish and bullheads	1,000	35	--------	--------	--------	--------	--------	--------
Crevalle	93,700	1,719	--------	--------	10,300	354	4,900	124
Croaker	7,900	130	--------	--------	--------	--------	2,000	60
Drum:								
Black	28,800	695	--------	--------	100	3	5,300	118
Red or redfish	392,300	13,619	--------	--------	261,300	9,691	202,800	6,976
Flounders	30,700	1,158	--------	--------	18,200	734	--------	--------
Groupers	12,800	562	--------	--------	--------	--------	5,129,400	160,322
Grunts	--------	--------	--------	--------	--------	--------	32,700	673
Hogfish	--------	--------	--------	--------	--------	--------	4,000	94
Jewfish	1,400	40	--------	--------	--------	--------	50,000	1,914

Fisheries of Florida, 1937—Continued

CATCH: BY GEAR—Continued

Species	Gill nets—Continued				Trammel nets		Lines	
	Runaround		Stake				Hand	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Kingfish or "king mackerel"	57,900	$1,737						
King whiting or "kingfish"	29,000	576			2,100	$63		
Mojarra	239,400	4,344			1,200	25	500	$15
Moonfish	4,100	120					1,300	39
Mullet	18,585,000	632,911			2,334,600	78,366		
Muttonfish	30,000	1,942					194,100	11,776
Permit	7,200	149			1,000	25		
Pigfish	8,200	161			2,200	72		
Pinfish or sailors choice	30,500	444						
Pompano	92,800	19,802			487,100	99,653	10,400	2,139
Porgies	6,800	241					38,900	1,161
Sea bass							40,900	1,873
Sea catfish					3,700	58		
Shad			6,600	$726				
Sheepshead	372,200	9,583			108,600	3,677	158,600	3,752
Snapper:								
Mangrove	39,200	1,166			2,500	86	116,700	4,494
Red							4,760,900	319,359
Snook or sergeantfish	60,100	2,470			18,600	734	348,900	13,813
Spadefish	9,000	180						
Spanish mackerel	5,050,300	234,609			40,700	1,763	35,400	1,715
Spot	168,500	2,752			56,500	1,668	200	4
Squeteagues or "sea trout":								
Spotted	1,458,100	93,532			393,000	26,071	1,010,600	65,035
White	28,200	1,299			800	27	22,100	897
Sturgeon			2,300	210				
Tenpounder	9,600	208			4,300	108		
Tripletail							1,000	22
Yellowtail							109,200	7,808
Sea crawfish or spiny lobster	4,400	220						
Total	29,737,000	1,169,992	8,900	936	3,827,800	225,282	12,421,400	610,523

Species	Lines—Continued							
	Trawl		Troll		Trot with baits or snoods		Trot with hooks	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Amberjack			29,100	$776				
Bluefish			30,100	1,665				
Catfish and bullheads							1,401,300	$57,223
Dolphin			3,000	150				
Groupers			1,800	54				
Kingfish or "king mackerel"			3,254,900	121,338				
Sea catfish							54,800	1,096
Sharks	1,640,000	$9,224						
Spanish mackerel			196,500	9,920				
Squeteagues or "sea trout," spotted			4,100	267				
Crabs:								
Hard					2,939,900	$46,531		
Soft and peelers					1,500	89		
Turtles, soft-shell							107,900	2,158
Total	1,640,000	9,224	3,519,500	134,170	2,941,400	46,620	1,564,000	60,477

Fisheries of Florida, 1937—Continued

CATCH: BY GEAR—Continued

Species	Pound nets		Fyke nets		Dip nets			
					Common		Drop	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Bluefish	3,000	$210						
Blue runner or hardtail	2,000	70						
Catfish and bullheads	187,400	7,498	15,000	$600				
Crevalle	600	21						
Flounders	100	4						
Snapper, mangrove	300	10						
Spanish mackerel	5,500	385						
Squeteagues or "sea trout," spotted	1,000	70						
Tenpounder	2,000	50						
Crabs, hard					56,300	$1,088	4,500	$178
Sea crawfish or spiny lobster					79,800	4,737		
Shrimp					125,000	8,750		
Scallops, bay					13,400	1,372		
Total	201,900	8,318	15,000	600	274,500	15,947	4,500	178

Species	Cast nets		Otter trawls		Pots		Spears	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Angelfish					4,000	$80		
Blue runner or hardtail					26,000	520		
Catfish and bullheads					71,700	3,196		
Crappie					174,000	5,497		
Crevalle					13,500	270		
Croaker			2,600	$35				
Eels, common					8,600	215		
Flounders			162,800	12,088			48,200	$2,398
Groupers					28,500	1,710		
Grunts					18,500	370		
Hogfish					7,200	154		
Jewfish					2,500	75		
King whiting or "kingfish"			638,900	9,690				
Mojarra	13,300	$316			7,000	175		
Mullet	137,400	4,728						
Muttonfish					9,100	728		
Porgies			2,800	33				
Sea bass			1,100	67				
Sheepshead					14,200	284		
Squeteagues or "sea trout":								
Gray			400	4				
White			500	15				
Sunfish					157,400	4,914		
Crabs:								
Hard			55,000	825	1,470,400	25,184		
Stone					43,200	8,591		
Sea crawfish or spiny lobster					190,300	15,224		
Shrimp	153,500	4,774	13,758,900	418,288				
Total	304,200	9,818	14,623,000	441,045	2,246,100	67,187	48,200	2,398

Species	Dredges		Tongs		Rakes	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Clams, hard, public	701,000	$43,911				
Oysters, market:						
Public, spring	154,900	7,193	278,300	$19,070		
Public, fall			363,800	27,382	2,000	$125
Private, spring			55,200	3,580		
Private, fall			123,000	5,933		
Scallops, bay	67,300	5,530				
Total	923,200	56,634	820,300	55,965	2,000	125

Fisheries of Florida, 1937—Continued

CATCH: BY GEAR—Continued

Species	Forks		Grabs		Coquina scoops	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Sea crawfish or spiny lobster			18,000	$1,440		
Clams:						
Coquina					3,700	$450
Hard, public	4,700	$702	8,800	1,350		
Total	4,700	702	26,800	2,790	3,700	450

Species	Hooks				Diving outfits		By hand	
	Sponge		Conch					
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Crabs, stone							2,900	$725
Clams, hard, public							33,600	3,209
Conchs			7,400	$553				
Oysters, market:								
Public, spring							117,700	5,343
Public, fall							14,800	872
Private, spring							149,900	6,177
Private, fall							20,300	1,060
Scallops, bay							37,900	2,597
Sponges:								
Grass	21,700	$14,003						
Sheepswool	91,300	222,881			352,700	$866,486		
Wire					16,200	12,382		
Yellow	46,700	28,147			102,800	75,806		
Total	159,700	265,031	7,400	553	471,700	954,674	377,100	19,983

OPERATING UNITS: BY COUNTIES

Item	Bay	Brevard	Broward	Charlotte	Citrus	Clay	Collier	Dade
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	109	2					3	2
On boats and shore:								
Regular	221	147	20	170	152	35	297	220
Casual	44	26	26	27	31	4	109	39
Total	374	175	46	197	183	39	409	261
Vessels, motor:								
5 to 10 tons	5						1	1
11 to 20 tons	7	1						
21 to 30 tons	3							
61 to 70 tons	1							
Total	16	1					1	1
Net tonnage	253	15					10	6
Boats:								
Motor	46	86	19	58	74	13	165	143
Other	43	90	5	104	166	24	189	57
Accessory boats								1
Apparatus:								
Haul seines	17		1	12		7	6	1
Length, yards	5,800		400	14,220		12,150	2,450	400
Gill nets:								
Anchor		1						
Square yards		980						
Runaround	21	96	6	82	144		205	60
Square yards	14,400	72,300	8,600	106,300	78,410		235,600	126,000
Trammel nets	1			10	30		44	16
Square yards	750			25,300	18,800		96,000	64,600
Lines:								
Hand	182	6	24	35	42		148	59
Hooks	364	6	24	35	42		148	59
Trawl		2						
Hooks		100						
Troll			8	8	8		56	78
Hooks			8	8	8		56	78

Fisheries of Florida, 1937—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Bay	Brevard	Broward	Charlotte	Citrus	Clay	Collier	Dade
Apparatus—Continued								
Lines—Continued	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Trot, with baits and snoods		44						
Baits and snoods		41, 400						
Trot, with hooks						10		
Hooks						5, 900		
Dip nets, common	16	3						12
Cast nets			2	34			10	
Pots:								
Crab		2, 910				240		170
Fish								320
Sea crawfish			260					1, 815
Spears	12							
Dredges:								
Clam							1	
Scallop	15							
Yards at mouth	12							
Tongs, oyster	40				13			
Grabs								9
Hooks, sponge					2			

Item	Dixie	Duval	Escambia	Franklin	Glades	Gulf	Hendry	Hernando
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels		164	241	50		56		
On boats and shore:								
Regular	51	262	83	356	30	46	10	8
Casual	17	90	17	24		6		
Total	68	516	341	430	30	108	10	8
Vessels, motor:								
5 to 10 tons		16	2	13				
11 to 20 tons		2						
31 to 40 tons		2				1		
41 to 50 tons		3	6					
51 to 60 tons		1	3					
61 to 70 tons			9			1		
71 to 80 tons			4					
81 to 90 tons			1					
91 to 100 tons			1					
Total		24	26	13		2		
Net tonnage		397	1, 526	84		93		
Boats:								
Motor	21	122	49	120	18	7	5	2
Other	73	158	30	97	24	18	8	8
Accessory boats		18				6		
Apparatus:								
Purse seines, menhaden		6				2		
Length, yards		1, 650				520		
Haul seines		10	1	13	8	4	2	
Length, yards		6, 950	400	6, 300	7, 200	1, 700	1, 800	
Gill nets:								
Anchor	15	5						
Square yards	4, 500	10, 500						
Drift	15	37		13				
Square yards	9, 000	95, 300		10, 700				
Runaround	54	24	14	55		9		8
Square yards	24, 100	16, 450	31, 000	36, 900		5, 600		5, 300
Trammel nets	35		25					
Square yards	15, 900		28, 000					
Lines:								
Hand	39	56	256	61				
Hooks	39	60	502	99				
Troll		15		2				
Hooks		15		2				
Trot with baits and snoods		47		23				
Baits and snoods		16, 500		7, 300				
Trot with hooks		84		26	1		2	
Hooks		26, 300		2, 800	200		1, 000	

Fisheries of Florida, 1937—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Dixie	Duval	Escambia	Franklin	Glades	Gulf	Hendry	Hernando
Apparatus—Continued.								
Dip nets:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Common						6		
Drop			20					
Cast nets		25						
Otter trawls, shrimp		29	25	73				
Yards at mouth		608	245	808				
Pots:								
Crab		640						
Fish				150	2,000		500	
Spears				19		4		
Dredges, oyster				3				
Yards at mouth				3				
Tongs, oyster	1	8	8	142		18		

Item	Hillsborough	Indian River	Lee	Levy	Manatee	Martin	Monroe	Nassau
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	67							324
On boats and shore:								
Regular	107	68	289	133	97	142	250	123
Casual	14	4	68	29	43	5	47	42
Total	188	72	357	162	140	147	297	489
Vessels, motor:								
5 to 10 tons	4							37
11 to 20 tons	5							2
31 to 40 tons								8
41 to 50 tons								1
51 to 60 tons								1
71 to 80 tons								1
81 to 90 tons								1
Total	9							51
Net tonnage	95							822
Boats:								
Motor	35	38	154	80	34	61	64	44
Other	96	42	231	130	83	59	170	80
Accessory boats								36
Apparatus:								
Purse seines, menhaden								12
Length, yards								3,500
Haul seines	2		8	3	19	11		3
Length, yards	1,100		2,600	600	6,600	10,750		550
Gill nets:								
Anchor				3				2
Square yards				3,600				2,800
Drift					7			12
Square yards					10,900			6,200
Runaround	89	47	237	106	70	48	39	4
Square yards	86,100	40,550	244,400	44,200	85,300	78,850	52,400	2,240
Stake								6
Square yards								6,000
Trammel nets	1		30	117	7	10	3	
Square yards	2,000		71,700	47,800	13,200	11,000	2,800	
Lines:								
Hand	104	14	67	47	24	32	87	7
Hooks	188	14	67	47	24	32	87	7
Trawl					5	8		
Hooks					300	400		
Troll	4		27	117	8	22	48	
Hooks	4		27	117	8	22	48	
Trot with baits and snoods	4	1	17		24			32
Baits and snoods	800	500	6,800		8,400			6,400
Pound nets				1				
Dip nets, common	3				4		20	
Cast nets	31		66					
Otter trawls, shrimp								72
Yards at mouth								1,614
Pots, crab		150			80			
Dredges, scallop			14					
Yards at mouth			7					
Tongs, oyster		2		3				
Forks			2		7			
Coquina scoops			2					
Hooks:								
Sponge							132	
Conch							3	

Fisheries of Florida, 1937—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Okaloosa	Okeechobee	Palm Beach	Pasco	Pinellas	Putman	St. Johns	St. Lucie
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	14			5	65		261	
On boats and shore:								
Regular	178	67	289	111	977	142	63	157
Casual	5		138		188	3	9	3
Total	197	67	427	116	1, 230	145	333	160
Vessels, motor:								
5 to 10 tons	1				4		86	
11 to 20 tons				1	5		15	
21 to 30 tons	1						1	
Total	2			1	9		102	
Net tonnage	28			19	103		836	
Boats:								
Motor	36	25	157	20	201	79	19	79
Other	26	54	99	92	282	111	36	21
Apparatus:								
Haul seines	14	8	4		21	45	10	
Length, yards	5, 300	7, 100	1, 950		9, 200	29, 600	740	
Gill nets:								
Drift					4	5		
Square yards					3, 700	3, 600		
Runaround	4		77	73	193			86
Square yards	2, 400		184, 800	44, 100	202, 926			158, 300
Stake	2							
Square yards	1, 600							
Trammel nets	28				5			
Square yards	32, 200				4, 450			
Lines:								
Hand	49		152		170		25	55
Hooks	93		152		193		37	55
Troll			222		154		2	134
Hooks			222		154		2	134
Trot with baits and snoods							6	
Baits and snoods							2, 400	
Trot with hooks		40	3			44		
Hooks		19, 250	1, 000			18, 450		
Pound nets						20		
Fyke nets						8		
Cast nets			21				6	
Otter trawls:								
Fish							5	
Yards at mouth							122	
Shrimp							113	
Yards at mouth							2, 753	
Pots:								
Crab					293			
Eel						90		
Fish		1, 550	400					
Dredges, scallop					8			
Yards at mouth					8			
Tongs, oyster	3				10		1	3
Grabs					2			
Hooks, sponge				19	76			
Diving outfits				1	71			

Fisheries of Florida, 1937—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Santa Rosa	Sarasota	Seminole	Taylor	Volusia	Wakulla	Walton
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels					6		
On boats and shore:							
Regular	16	130	21	125	116	138	6
Casual	5	77	24	30	28	134	16
Total	21	207	45	155	150	272	22
Vessels, motor, 5 to 10 tons					3		
Net tonnage					20		
Boats:							
Motor	9	75	17	46	50	56	4
Other	14	109	19	140	106	108	11
Apparatus:							
Haul seines		11	6		16	14	
Length, yards		5, 800	2, 000		8, 885	4, 200	
Gill nets, runaround		103		79	26	102	
Square yards		138, 900		34, 400	22, 850	49, 400	
Trammel nets	14	17		59		108	6
Square yards	4, 500	39, 700		25, 700		50, 000	3, 000
Lines:							
Hand		33		49	28	38	
Hooks		33		49	28	38	
Troll		47		8		25	
Hooks		47		8		25	
Trot with baits and snoods					14		
Baits and snoods					5, 400		
Trot with hooks			27				
Hooks			6, 950				
Dip nets:							
Common					15	4	
Drop						6	
Cast nets		25			12		
Otter trawls, shrimp					6		
Yards at mouth					135		
Pots, crab						1, 300	
Spears	6				18	17	8
Tongs, oyster	9	5			31	7	11
Rakes, oyster					1		
Hooks, sponge				27			

CATCH: BY COUNTIES

Species	Bay		Brevard		Broward		Charlotte	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Bluefish	437, 900	$13, 139	6, 000	$302	7, 500	$487	9, 200	$460
Blue runner or hardtail	371, 800	3, 718					1, 500	23
Cigarfish	3, 000	65						
Crevalle			4, 500	67				
Croaker	700	21						
Drum:								
Black	700	21	7, 900	188			500	12
Red or redfish	3, 900	117	10, 300	340			103, 900	3, 637
Flounders	4, 600	231					1, 600	64
Groupers	1, 476, 200	47, 090			8, 400	420	2, 200	66
Jewfish							1, 000	22
Kingfish or "king mackerel"	26, 000	520			45, 100	2, 255	4, 500	180
King whiting or "kingfish"	600	18	8, 200	123			1, 800	42
Menhaden	2, 000	30						
Mojarra							48, 000	1, 033
Mullet	1, 507, 600	45, 553	798, 900	23, 967	17, 000	510	1, 920, 500	60, 500
Muttonfish					7, 400	666		
Permit							1, 000	20
Pigfish							1, 500	34
Pinfish or sailors choice			23, 000	332				
Pompano	14, 200	2, 580	17, 900	4, 117	4, 200	966	43, 800	8, 760
Porgies	10, 000	300						
Sharks			520, 000	3, 113				
Sheepshead	1, 600	48	15, 600	234			79, 000	1, 866
Snapper:								
Mangrove							22, 000	709
Red	798, 800	55, 136						

Fisheries of Florida, 1937—Continued

CATCH: BY COUNTIES—Continued

Species	Bay		Brevard		Broward		Charlotte	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Snook or sergeantfish			5, 600	$223			35, 400	$1, 416
Spadefish	600	$18						
Spanish mackerel	599, 600	20, 039			9, 800	$490	176, 000	7, 445
Spot	1, 800	43	23, 600	353			2, 600	62
Squeteagues or "sea trout":								
Spotted	80, 600	5, 198	226, 300	15, 870			251, 000	15, 650
White	2, 000	60					5, 000	250
Tenpounder	256, 000	5, 120						
Tripletail							1, 000	22
Crabs:								
Hard	1, 400	45	1, 247, 400	22, 453				
Stone							500	120
Sea crawfish or spiny lobster					35, 000	2, 800		
Oysters, market:								
Public, spring	34, 000	2, 540						
Public, fall	31, 400	2, 958						
Scallops, bay	34, 000	2, 950						
Total	5, 701, 000	207, 558	2, 915, 200	71, 682	134, 400	8, 594	2, 713, 500	102, 393

Species	Citrus		Clay		Collier		Dade	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Angelfish							4, 600	$92
Bluefish	10, 600	$633			22, 200	$1, 066	75, 300	4, 518
Blue runner or hardtail					400	8	30, 200	604
Catfish and bullheads			253, 500	$11, 408				
Crappie			1, 300	52				
Crevalle					14, 100	290	20, 500	410
Dolphin							3, 000	150
Drum:								
Black					1, 500	36	800	24
Red or redfish	92, 600	3, 704			128, 200	4, 571	1, 000	30
Flounders	6, 000	240			2, 500	66		
Groupers	3, 600	108			15, 500	420	167, 800	9, 978
Grunts							31, 000	620
Hogfish							7, 200	154
Jewfish					2, 900	67	13, 800	414
Kingfish or "king mackerel"	400	16			133, 700	5, 633	234, 100	11, 705
King whiting or "kingfish"					300	6		
Mojarra					58, 000	1, 180	17, 500	437
Mullet	1, 167, 900	54, 282			3, 123, 000	100, 381	620, 800	18, 618
Muttonfish							114, 400	9, 102
Permit					8, 200	174		
Pigfish	200	8						
Pompano	800	160			185, 100	36, 920	65, 500	15, 065
Shad			1, 000	70				
Sheepshead	22, 500	900			57, 500	1, 174	25, 700	514
Snapper, mangrove	5, 600	224			36, 000	1, 162	14, 000	750
Snook or sergeantfish					204, 400	8, 076	31, 000	1, 240
Spadefish					9, 000	180		
Spanish mackerel	2, 500	150			1, 009, 600	48, 655	662, 400	33, 120
Spot					400	8		
Squeteagues or "sea-trout":								
Spotted	132, 000	7, 920			224, 600	14, 956	25, 900	1, 813
White					2, 500	74		
Sunfish			26, 600	1, 064				
Yellowtail							25, 900	2, 027
Crabs:								
Hard			188, 900	2, 833				
Stone							7, 700	2, 541
Sea crawfish or spiny lobster							185, 300	14, 824
Clams, hard, public					701, 000	43, 911		
Oysters, market:								
Public, spring	4, 300	241						
Public, fall	4, 300	243						
Private, spring	8, 100	457						
Private, fall	10, 400	585						
Sponges:								
Grass	300	209						
Sheepswool	800	2, 002						
Yellow	500	356						
Total	1, 473, 400	72, 438	471, 300	15, 427	5, 940, 600	269, 014	2, 385, 400	128, 750

Fisheries of Florida, 1937—Continued

CATCH: BY COUNTIES—Continued

Species	Dixie		Duval		Escambia		Franklin	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Angelfish	200	$6						
Bluefish	1, 600	96	11, 400	$688	26, 800	$804	14, 200	$548
Blue runner or hardtail	1, 500	45			4, 600	70	7, 900	158
Catfish and bullheads			705, 200	28, 210			89, 300	4, 016
Crappie			22, 000	1, 320				
Crevalle	2, 600	78	8, 600	129				
Croaker			2, 800	46				
Drum:								
Black			4, 300	129				
Red or redfish	25, 000	750	2, 900	148	3, 700	111	19, 900	701
Flounders	2, 200	66	8, 400	420	4, 100	142	30, 600	1, 398
Groupers			1, 800	69	1, 555, 000	43, 314	546, 300	16, 887
Grunts							300	9
Kingfish or "king mackerel"							700	14
King whiting or "kingfish"			143, 500	2, 140	2, 100	63	2, 300	123
Menhaden			51, 609, 000	136, 346			24, 000	652
Mullet	203, 000	7, 602	244, 300	9, 216	208, 200	7, 547	1, 592, 200	55, 632
Pompano	1, 200	240	2, 200	440	28, 500	5, 700	1, 500	294
Porgies					5, 000	150	700	21
Sea bass			21, 900	1, 303				
Sea catfish					5, 000	100	54, 800	1, 096
Shad			89, 000	9, 043				
Sheepshead	25, 500	765			2, 100	63	3, 500	89
Snapper:								
Mangrove	300	9						
Red			58, 100	4, 522	2, 757, 200	180, 413	214, 900	14, 387
Spanish mackerel	4, 900	294	10, 600	636	428, 200	12, 847	84, 100	3, 342
Spot			14, 600	235	1, 200	18	24, 300	612
Squeteagues of "sea-trout":								
Spotted	50, 000	3, 000	43, 400	3, 140	31, 900	2, 233	87, 000	5, 330
White					500	15	800	24
Sturgeon	25, 000	2, 500					6, 200	621
Sunfish			27, 900	1, 395				
Tenpounder							24, 500	490
Crabs, hard			1, 841, 000	29, 001	4, 000	160	431, 200	4, 313
Shrimp			2, 017, 600	60, 803	134, 000	5, 360	1, 356, 700	44, 222
Oysters, market:								
Public, spring					14, 000	1, 404	346, 300	18, 687
Public, fall	700	62	2, 800	173	5, 900	768	252, 100	16, 745
Private, spring			6, 800	321				
Private, fall			43, 400	1, 790				
Total	343, 700	15, 513	56, 943, 500	291, 663	5, 222, 000	261, 282	5, 216, 300	190, 411

Species	Glades		Gulf		Hendry		Hernando	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Bluefish			19, 000	$570			400	$20
Blue runner or hardtail			3, 000	30				
Catfish and bullheads	339, 000	$10, 170			39, 000	$1, 360		
Crappie	189, 700	5, 690			32, 000	960		
Drum:								
Black			100	3				
Red or redfish			3, 600	108			1, 500	45
Flounders			1, 700	87			100	3
King whiting or "kingfish"			200	6				
Menhaden			6, 192, 000	14, 706				
Mullet			421, 100	12, 633			42, 200	1, 480
Pompano			3, 100	558				
Sheepshead			400	12			1, 600	48
Snapper, mangrove							100	3
Spanish mackerel			81, 400	2, 442			200	8
Squeteagues or "sea trout," spotted			14, 500	818			3, 100	202
Sunfish	225, 700	6, 771			52, 000	1, 300		
Oysters, market:								
Public, spring			10, 600	1, 090				
Public, fall			28, 800	2, 600				
Scallops, bay			2, 400	120				
Turtles, soft-shell	41, 500	830			20, 000	400		
Total	795, 900	23, 461	6, 781, 900	35, 783	143, 000	4, 020	49, 200	1, 809

Fisheries of Florida, 1937—Continued

CATCH: BY COUNTIES—Continued

Species	Hillsborough		Indian River		Lee		Levy	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Amberjack					2,000	$45		
Angelfish							2,500	$88
Bluefish	900	$46	89,500	$4,474	16,800	840	20,300	1,421
Blue runner or hardtail	400	4					7,000	244
Catfish and bullheads							1,000	35
Crevalle	3,600	36	7,200	98	1,000	24	14,800	519
Drum:								
Black	1,100	22	13,500	325	6,200	155		
Red or redfish	46,200	1,860	21,100	632	150,200	5,258	82,500	2,887
Flounders	2,900	145			4,300	172	3,900	137
Groupers	409,300	12,443	1,100	48	10,400	312	7,000	210
Jewfish					4,900	118	2,000	70
Kingfish or "king mackerel"	8,200	246			23,300	932	265,200	7,960
King whiting or "kingfish"			2.000	30	3,600	109		
Mojarra	81,900	888	21,600	315	34,500	807		
Moonfish					500	12		
Mullet	850,800	34,056	592,000	14,900	3,044,000	102,836	891,300	31,210
Pigfish							3,000	90
Pinfish or sailors choice			7,500	112				
Pompano	1,800	405	4,200	966	122,800	24,560	5,100	1,020
Sheepshead	12,900	516	17,800	273	165,000	3,962	79,400	2,779
Snapper:								
Mangrove	200	9	10,100	202	36,500	1,242	3,800	133
Red	393,700	25,148						
Snook or sergeantfish	7,800	274	24,500	1,169	85,400	3,353		
Spanish mackerel	21,400	1,070	60,900	2,936	290,500	12,448	16,500	1,155
Spot	15,100	151	70,300	1,058	6,100	145		
Squeteagues or "sea trout":								
Spotted	64,900	4,041	220,600	13,355	361,900	22,387	214,100	14,982
White	17,300	563			5,800	290		
Tenpounder							9,500	238
Crabs:								
Hard	26,400	528	111,200	2,000	148,100	3,351		
Soft and peelers					1,500	89		
Clams:								
Coquina					3,700	450		
Hard, public					900	132		
Oysters, market:								
Public, spring			2,700	227			800	71
Public, fall							6,900	619
Scallops, bay					30,600	2,560		
Turtles, green							10,000	400
Total	1,966,800	82,451	1,277,800	43,120	4,560,500	186,589	1,646,600	66,268

Species	Manatee		Martin		Monroe		Nassau	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Amberjack					1,000	$20		
Bluefish	25,300	$1,265	391,600	$19,580	6,300	441	500	$30
Blue runner or hardtail	500	5			1,200	18		
Cabio or crab eater	300	7						
Crevalle	1,300	13	68,900	1,033				
Croaker	1,400	28	24,300	364				
Drum:								
Black			32,100	622	3,200	64	800	24
Red or redfish	67,800	2,339	23,600	472	3,400	102	1,200	60
Flounders	5,100	204	2,500	75			22,300	1,140
Groupers	26,400	802	17,200	773	91,300	3,510		
Grunts	100	2			18,100	362		
Hogfish					4,000	94		
Jewfish			13,800	414	22,000	1,150		
Kingfish or "king mackerel"	5,600	224	6,900	344	561,400	22,456		
King whiting or "kingfish"	400	8					187,700	2,832
Menhaden			51,000	510			81,878,000	220,246
Mojarra	14,500	329	12,100	231				
Mullet	1,525,500	53,715	747,100	19,128	510,100	15,301	3,600	108
Muttonfish			31,000	620	46,100	2,708		
Permit	1,100	22						
Pigfish	1,000	18	24,000	360				
Pompano	19,400	4,165	37,600	8,648	4,700	940		

Fisheries of Florida, 1937—Continued

CATCH: BY COUNTIES—Continued

Species	Manatee		Martin		Monroe		Nassau	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Porgies	500	$10			8,700	$262		
Sea catfish			5,000	$50				
Shad							19,100	$2,101
Sharks	875,000	3,500	565,000	4,531			350,000	2,454
Sheepshead	50,200	1,222	23,100	345	700	17	800	16
Skates	3,000	15						
Snapper, mangrove	3,400	90	22,200	666	10,800	668		
Snook or sergeantfish	25,700	983	51,000	2,050	6,000	240		
Spadefish	1,200	24						
Spanish mackerel	67,600	3,097	261,000	13,052	308,700	13,889		
Spot	2,000	40	13,500	205			3,000	45
Squeteagues or "sea trout":								
Spotted	182,600	11,844	33,900	2,034	52,000	3,380	13,200	1,188
White	33,100	1,655						
Tenpounder	7,000	140						
Tripletail			22,200	335				
Yellowtail					83,300	5,781		
Crabs:								
Hard	162,000	3,240					206,000	3,090
Stone	600	150			2,000	500		
Sea crawfish or spiny lobster					67,800	3,777		
Shrimp							3,075,900	92,447
Clams, hard, public	3,800	570						
Conchs					7,400	553		
Oysters, market:								
Public, spring							37,300	1,680
Public, fall							1,800	108
Private, spring							147,300	6,054
Private, fall							17,900	908
Scallops, bay	2,900	542						
Sponges:								
Grass					4,700	2,196		
Sheepswool					40,000	94,431		
Yellow					16,900	6,117		
Total	3,116,300	90,268	2,480,600	76,442	1,881,800	178,977	85,966,400	334,531

Species	Okaloosa		Okeechobee		Palm Beach		Pasco	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Amberjack					2,500	$50		
Angelfish					1,100	33		
Bluefish	33,500	$1,005			1,250,000	63,265	7,800	$395
Blue runner or hardtail	297,800	2,978			22,400	568		
Catfish and bullheads			497,300	$21,100	154,500	6,942		
Cigarfish	13,800	276						
Crappie			95,500	3,343	57,100	1,713		
Crevalle					10,000	200		
Croaker					2,100	41		
Drum:								
Black	100	3						
Red or redfish	7,000	211			4,100	132	19,200	576
Flounders	1,600	96					2,200	66
Groupers	432,900	12,987			50,500	2,129		
Grunts					1,300	40		
Jewfish					900	19		
Kingfish or "king mackerel"	16,900	338			1,353,200	40,946		
King whiting or "kingfish"					500	10		
Menhaden	32,000	480						
Mojarra					27,500	825		
Moonfish					4,900	147		
Mullet	1,101,000	32,720			26,900	806	636,000	22,260
Muttonfish					27,500	1,146		
Pompano	13,800	2,650			21,200	4,328	500	100
Porgies	13,600	408					600	18
Sea catfish	5,400	78						
Sheepshead	100	3			1,600	50	7,700	231
Snapper:								
Mangrove					100	6	1,700	51
Red	325,000	22,752						
Snook or sergeantfish					4,600	137		
Spanish mackerel	167,100	5,013			482,700	21,970	12,400	496
Spot	700	11			800	16		

Fisheries of Florida, 1937—Continued

CATCH: BY COUNTIES—Continued

Species	Okaloosa		Okeechobee		Palm Beach		Pasco	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Squeteagues or "sea trout," spotted	17, 700	$1, 182			4, 100	$304	47, 600	$3, 092
Sturgeon	2, 300	210						
Sunfish			109, 600	$3, 938	26, 500	537		
Tenpounder	134, 800	1, 948						
Sea crawfish or spiny lobster					4, 400	220		
Oysters, market, public, fall	1, 500	165						
Turtles, soft-shell			140, 900	2, 818	5, 700	114		
Sponges:								
Grass							2, 000	1, 363
Sheepswool							13, 200	32, 983
Wire							300	199
Yellow							5, 300	3, 906
Total	2, 618, 600	85. 514	843, 300	31, 199	3, 548, 700	146, 694	756, 500	65, 736

Species	Pinellas		Putnam		St. Johns		St. Lucie	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives			400, 000	$1, 999				
Amberjack	33, 000	$820						
Bluefish	40, 500	2, 413			8, 000	$400	1, 013, 800	$50, 690
Blue runner or hardtail	300	9					5, 300	79
Cabio or crab eater	1, 500	45						
Catfish and bullheads			1, 745, 900	69, 842				
Crappie			91, 000	2, 862				
Crevalle							32, 000	480
Croaker					4, 600	95		
Drum:								
Black	1, 500	30			4, 000	120		
Red or redfish	26, 300	952	100	4	3, 900	156	4, 400	132
Eels, common			8, 600	215				
Flounders	9, 300	371			119, 000	9, 898		
Groupers	299, 100	9, 173					14, 700	588
Grunts					3, 000	60		
Hickory shad			51, 000	1, 520				
Kingfish or "king mackerel"	198, 500	7, 904			1, 700	85	342, 300	17, 115
King whiting or "kingfish"	300	14			359, 500	5, 444	7, 200	108
Mojarra							20, 400	306
Mullet	1, 792, 100	64, 501	1, 600	48	77, 400	1, 997	371, 000	9, 270
Muttonfish							6, 800	204
Pigfish	500	10					5, 200	78
Pompano	9, 000	1, 800			800	190	1, 400	340
Porgies	6, 400	231			2, 800	33		
Sea bass					1, 100	67		
Shad			171, 800	12, 012				
Sheepshead	33, 800	1, 342			5, 100	102	29, 500	442
Snapper:								
Mangrove	8, 400	337						
Red	60, 900	4, 263			48, 000	3, 840	16, 300	978
Snook or sergeantfish	6, 300	234					16, 600	664
Spanish mackerel	517, 700	28, 728			2, 000	100	741, 100	37, 055
Spot	4, 200	84					10, 700	160
Squeteagues or "sea trout":								
Gray					400	4		
Spotted	461, 300	28, 080			15, 800	1, 422	23, 700	1, 422
White	14, 900	732						
Sunfish			303, 400	8, 245				
Tenpounder	2, 500	50						
Crabs:								
Hard					26, 000	520		
Stone	17, 700	3, 320						
Shrimp					6, 975, 400	209, 477		
Clams, hard, public	9, 600	1, 500			28, 100	2, 373		
Oysters, market:								
Public, spring	3, 700	365			80, 200	3, 645	4, 000	520
Public, fall	6, 800	727			15, 100	756		
Private, spring	13, 100	1, 080						
Scallops, bay	42, 000	2, 880						
Turtles, soft-shell			2, 700	55				
Sponges:								
Grass	10, 800	7, 514						
Sheepswool	378, 000	929, 982						
Wire	15, 900	12, 183						
Yellow	119, 900	88, 486						
Total	4, 145, 800	1, 200, 160	2, 776, 100	96, 802	7, 781, 900	240, 784	2, 666, 400	120, 631

Fisheries of Florida, 1937—Continued

CATCH: BY COUNTIES—Continued

Species	Santa Rosa		Sarasota		Seminole		Taylor	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Amberjack	--------	--------	12, 100	$183	--------	--------	--------	--------
Angelfish	--------	--------	--------	--------	--------	--------	600	$21
Bluefish	--------	--------	6, 500	310	--------	--------	3, 600	226
Blue runner or hardtail	--------	--------	5, 500	80	--------	--------	5, 000	174
Catfish and bullheads	--------	--------	--------	--------	289, 200	$11, 568	--------	--------
Crappie	--------	--------	--------	--------	3, 200	112	--------	--------
Crevalle	--------	--------	--------	--------	--------	--------	4, 800	169
Drum:								
Black	--------	--------	1, 500	34	--------	--------	--------	--------
Red or redfish	200	$8	15, 800	553	--------	--------	42, 200	1, 479
Flounders	1, 400	56	5, 400	216	--------	--------	8, 500	297
Groupers	--------	--------	6, 800	171	--------	--------	1, 500	45
Grunts	--------	--------	400	10	--------	--------	--------	--------
Jewfish	--------	--------	4, 000	96	--------	--------	--------	--------
Kingfish or "king mackerel"	--------	--------	116, 000	4, 700	--------	--------	2, 000	60
King whiting or "kingfish"	--------	--------	2, 700	61	--------	--------	--------	--------
Mojarra	--------	--------	13, 000	303	--------	--------	--------	--------
Mullet	162, 000	4, 770	1, 175, 500	38, 206	--------	--------	366, 000	12, 690
Hermit	--------	--------	1, 500	61	--------	--------	--------	--------
Pigfish	--------	--------	--------	--------	--------	--------	1, 200	42
Pompano	--------	--------	17. 700	3, 540	--------	--------	2, 100	420
Porgies	--------	--------	200	2	--------	--------	--------	--------
Shad	--------	--------	--------	--------	5, 500	220	--------	--------
Sheepshead	400	12	66, 200	1, 514	--------	--------	45, 500	1, 593
Snapper, mangrove	--------	--------	17, 800	577	--------	--------	1, 700	57
Snook or sergeantfish	--------	--------	19, 700	741	--------	--------	--------	--------
Spanish mackerel	--------	--------	117, 500	4, 998	--------	--------	6, 800	445
Spot	600	12	800	17	--------	--------	1, 500	52
Squeteagues or "sea trout":								
Spotted	17, 000	1, 190	109, 100	6, 885	--------	--------	174, 000	10, 965
White	200	8	6, 900	345	--------	--------	--------	--------
Sunfish	--------	--------	--------	--------	14, 200	426	--------	--------
Crabs, stone	--------	--------	400	105	--------	--------	--------	--------
Clams, hard, public	--------	--------	4, 700	686	--------	--------	--------	--------
Oysters, market:								
Public, spring	5, 700	587	5, 200	376	--------	--------	--------	--------
Public, fall	6, 200	840	800	78	--------	--------	--------	--------
Scallops, bay	--------	--------	6, 700	447	--------	--------	--------	--------
Sponges:								
Grass	--------	--------	--------	--------	--------	--------	3, 900	2, 721
Sheepswool	--------	--------	--------	--------	--------	--------	12, 000	29, 969
Yellow	--------	--------	--------	--------	--------	--------	6, 900	5, 088
Total	193, 700	7, 483	1, 740, 400	65, 295	312, 100	12, 326	689, 800	66, 513

Species	Volusia		Wakulla		Walton	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Bluefish	16, 200	$738	5, 500	$240	--------	--------
Blue runner or hardtail	--------	--------	3, 000	60	--------	--------
Catfish and bullheads	383, 100	9, 502	--------	--------	--------	--------
Crappie	32, 300	1, 294	--------	--------	--------	--------
Crevalle	2, 000	30	--------	--------	--------	--------
Drum:						
Black	5, 000	100	--------	--------	--------	--------
Red or redfish	9, 500	315	104, 500	4, 066	200	$7
Flounders	28, 200	1, 410	12, 400	596	1, 700	117
Groupers	28, 000	1, 120	--------	--------	--------	--------
Kingfish or "king mackerel"	--------	--------	10, 000	300	--------	--------
King whiting or "kingfish"	28, 500	427	--------	--------	--------	--------
Mullet	308, 900	10, 610	1, 570, 100	458, 277	60, 000	2, 100
Pinfish or sailors choice	2, 000	30	--------	--------	--------	--------
Pompano	10, 100	2, 309	1, 300	238	--------	--------
Sea bass	19, 000	570	--------	--------	--------	--------
Shad	2, 000	160	--------	--------	--------	--------
Sheepshead	3, 900	58	40, 500	1, 330	100	3
Snapper, red	88, 000	7, 920	--------	--------	--------	--------
Spanish mackerel	--------	--------	6, 800	272	--------	--------
Spot	40, 300	601	55, 500	1, 665	--------	--------
Squeteagues or "sea trout":						
Spotted	52, 400	3, 723	98, 200	6, 599	1, 400	98
White	--------	--------	--------	--------	100	4

Fisheries of Florida, 1937—Continued

CATCH: BY COUNTIES—Continued

Species	Volusia		Wakulla		Walton	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Sunfish	194, 800	$4, 860				
Crabs:						
Hard	130, 200	2, 182	2, 300	$90		
Stone			17, 200	2, 580		
Shrimp	477, 800	19, 503				
Oysters, market:						
Public, spring			2, 100	173		
Public, fall	2, 000	125	8, 800	890	4, 700	$522
Private, spring	29, 800	1, 845				
Private, fall	71, 600	3, 710				
Turtles, soft-shell	3, 000	30				
Total	1, 968, 600	73, 172	1, 938, 200	77, 376	68, 200	2, 851

CATCH: BY DISTRICTS

Species	East coast		West coast		Lake Okeechobee	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Alewives	400, 000	$1, 999				
Amberjack	2, 500	50	48, 100	$1, 068		
Angelfish	5, 700	125	3, 300	115		
Blue fish	2, 869, 800	145, 172	708, 900	25, 938		
Blue runner or hardtail	57, 900	1, 251	711, 400	7, 624		
Cabio or crab eater			1, 800	52		
Catfish and bullheads	3, 376, 900	130, 530	90, 300	4, 051	1, 029, 800	$39, 572
Cigarfish			16, 800	341		
Crappie	149, 800	5, 640			374, 300	11, 706
Crevalle	153, 700	2, 447	42, 200	1, 129		
Croaker	33, 800	546	2, 100	49		
Dolphin	3, 000	150				
Drum:						
Black	68, 400	1, 532	16, 400	380		
Red or redfish	82, 100	2, 421	947, 800	34, 042		
Eels, common	8, 600	215				
Flounders	180, 400	12, 943	112, 100	4, 770		
Groupers	289, 500	15, 125	4, 883, 500	147, 538		
Grunts	35, 300	720	18, 900	383		
Hickory shad	51, 000	1, 520				
Hogfish	7, 200	154	4, 000	94		
Jewfish	28, 500	847	36, 800	1, 523		
Kingfish or "king mackerel"	1, 983, 300	72, 450	1, 372, 400	51, 483		
King whiting or "kingfish"	737, 100	11, 114	14, 300	450		
Menhaden	133, 358, 000	357, 102	6, 250, 000	15, 868		
Mojarra	99, 100	2, 114	249, 900	4, 540		
Moonfish	4, 900	147	500	12		
Mullet	3, 809, 500	109, 178	23, 870, 100	818, 252		
Muttonfish	187, 100	11, 738	46, 100	2, 708		
Permit			11, 800	277		
Pigfish	29, 200	438	7, 400	202		
Pinfish or sailors choice	32, 500	474				
Pompano	165, 100	37, 369	476, 400	95, 050		
Porgies	2, 800	33	45, 700	1, 402		
Sea bass	42, 000	1, 940				
Sea catfish	5, 000	50	65, 200	1, 274		
Shad	288, 400	23, 606				
Sharks	1, 435, 000	10, 098	875, 000	3, 500		
Sheepshead	123, 100	2, 034	696, 200	19, 489		
Skates			3, 000	15		
Snapper:						
Mangrove	46, 400	1, 624	148, 300	5, 271		
Red	210, 400	17, 260	4, 550, 500	302, 099		
Snook or sergeantfish	133, 300	5, 483	390, 700	15, 317		
Spadefish			10, 800	222		
Spanish mackerel	2, 230, 500	109, 359	3, 919, 500	166, 833		
Spot	176, 800	2, 673	116, 800	2, 920		
Squeteagues or "sea trout":						
Gray	400	4				
Spotted	659, 300	44, 271	2, 676, 500	170, 032		
White			89, 100	4, 020		
Sturgeon			33, 500	3, 331		
Sunfish	566, 900	15, 990			413, 800	12, 546
Tenpounder			434, 300	7, 986		
Tripletail	22, 200	335	1, 000	22		
Yellowtail	25, 900	2, 027	83, 300	5, 781		

Fisheries of Florida, 1937—Continued

CATCH: BY DISTRICTS—Continued

Species	East coast		West coast		Lake Okeechobee	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Crabs:						
Hard	3,750,700	$62,079	775,400	$11,727		
Soft and peelers			1,500	89		
Stone	7,700	2,541	38,400	6,775		
Sea crawfish or spiny lobster	224,700	17,844	67,800	3,777		
Shrimp	12,546,700	382,230	1,490,700	49,582		
Clams:						
Coquina			3,700	450		
Hard, public	28,100	2,373	720,000	46,799		
Conchs			7,400	553		
Oysters, market:						
Public, spring	124,200	6,072	426,700	25,534		
Public, fall	21,700	1,162	358,900	27,217		
Private, spring	183,900	8,220	21,200	1,537		
Private, fall	132,900	6,408	10,400	585		
Scallops, bay			118,600	9,499		
Turtles:						
Green			10,000	400		
Soft-shell	5,700	85			208,100	$4,162
Sponges:						
Grass			21,700	14,003		
Sheepswool			444,000	1,089,367		
Wire			16,200	12,382		
Yellow			149,500	103,953		
Total	171,384,600	1,651,312	58,764,800	3,331,682	2,026,000	67.986

Sponge fishery of Florida, 1937

OPERATING UNITS: BY GEAR

Item	Sponge hooks	Diving outfits	Total
	Number	*Number*	*Number*
Fishermen:			
On vessels		49	49
On boats and shore, regular	380	520	900
Total	380	569	949
Vessels, motor		7	7
Net tonnage		75	75
Boats:			
Motor		65	65
Other	256		256
Apparatus, number	256	72	328

CATCH: BY GEAR

Sponges	Sponge hooks		Diving outfits		Total	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Grass	21,700	$14,003			21,700	$14,003
Sheepswool	91,300	222,881	352,700	$866,486	444,000	1,089,367
Wire			16,200	12,382	16,200	12,382
Yellow	46,700	28,147	102,800	75,806	149,500	103,953
Total	159,700	265,031	471,700	954,674	631,400	1,219,705

SPONGES SOLD AT THE EXCHANGE, TARPON SPRINGS, FLA.

During 1937 sponges sold on the exchange at Tarpon Springs, Fla., amounted to 561,943 pounds, valued at $1,097,301. This is a decrease of 11 percent in quantity but an increase of 6 percent in value as compared with the transactions on the exchange in 1936. Revised data on the volume of sponges sold on the exchange in 1936 show that sales during that year totaled 628,226 pounds, valued at $1,035,429. Of the total sponges sold on the exchange during 1937, 43,218 pounds, valued at $163,745, were large wool; 26,511 pounds, valued at $60,923, were medium and small wool; 329,018 pounds, valued at $752,032, were wool rags; 130,562 pounds, valued at $96,536, were yellow; 16,954 pounds, valued at $11,807, were grass; and 15,680 pounds, valued at $12,258, were wire. It is estimated that sponges valued at $1,250 were sold outside the exchange.

ALABAMA

Fisheries of Alabama, 1937

OPERATING UNITS: BY GEAR

Item	Haul seines	Gill nets, stake	Trammel nets	Lines			Fyke nets
				Hand	Trot with baits or snoods	Trot with hooks	
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	--------	--------	--------	79	--------	--------	--------
On boats and shore:							
Regular	36	3	163	29	94	28	7
Casual	--------	--------	5	16	11	31	--------
Total	36	3	168	124	105	59	7
Vessels, motor:							
5 to 10 tons	--------	--------	--------	1	--------	--------	--------
11 to 20 tons	--------	--------	--------	9	--------	--------	--------
61 to 70 tons	--------	--------	--------	1	--------	--------	--------
Total	--------	--------	--------	11	--------	--------	--------
Net tonnage	--------	--------	--------	202	--------	--------	--------
Boats:							
Motor	5	2	57	10	32	9	7
Other	6	1	162	27	70	49	--------
Apparatus:							
Number	6	12	166	124	102	279	90
Length, yards	3, 500	--------	--------	--------	--------	--------	--------
Square yards	--------	2, 525	82, 400	--------	--------	--------	--------
Hooks, baits, or snoods	--------	--------	--------	203	29, 900	83, 100	--------

Item	Otter trawls, shrimp	Pots, fish	Spears	Dredges, oyster	Tongs, oyster	By hand		Total, exclusive of duplication
						Oyster	Other	
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	48	--------	--------	53	40	--------	--------	168
On boats and shore:								
Regular	323	45	22	12	198	10	20	653
Casual	--------	15	32	--------	20	--------	22	110
Total	371	60	54	65	258	10	42	931
Vessels, motor:								
5 to 10 tons	14	--------	--------	8	12	--------	--------	19
11 to 20 tons	7	--------	--------	5	1	--------	--------	17
41 to 50 tons	--------	--------	--------	1	--------	--------	--------	1
61 to 70 tons	--------	--------	--------	--------	--------	--------	--------	1
Total	21	--------	--------	14	13	--------	--------	38
Net tonnage	203	--------	--------	169	111	--------	--------	494
Boats:								
Motor	156	8	--------	6	74	--------	--------	264
Other	--------	52	--------	--------	151	--------	12	412
Apparatus:								
Number	177	655	54	25	244	--------	--------	--------
Yards at mouth	2, 639	--------	--------	25	--------	--------	--------	--------

Fisheries of Alabama, 1937—Continued

CATCH: BY GEAR

Species	Haul seines		Gill nets, stake		Trammel nets		Lines	
							Hand	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Bluefish	17,700	$1,103			10,600	$619		
Blue runner or hardtail	13,400	332			900	19		
Croaker	5,600	126			25,400	575		
Drum:								
Black	3,100	109			4,600	161		
Red or redfish	25,200	1,890			34,800	2,609	6,700	$503
Flounders	3,000	285			17,900	1,713		
Groupers							219,200	7,670
King whiting or "kingfish"	2,300	69			4,900	141		
Mullet	877,200	25,408			2,856,200	82,612		
Pompano	700	134			1,100	204		
Sea catfish	3,900	92			21,700	498		
Sheepshead, salt-water	19,100	955			22,000	1,100	300	15
Snapper, red							1,168,200	83,867
Spanish mackerel	9,800	832			13,200	1,158	300	26
Spot	6,900	157			28,600	642		
Squeteagues or "sea trout":								
Spotted	25,400	2,414			107,300	10,220	12,800	1,216
White	5,000	162			14,900	482	2,600	82
Sturgeon			3,100	$233				
Tenpounder	6,400	128			14,000	280		
Total	1,024,700	34,196	3,100	233	3,178,100	103,033	1,410,100	93,379

Species	Lines—Continued				Fyke nets		Otter trawls	
	Trot with baits or snoods		Trot with hooks					
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Buffalofish					29,000	$1,650		
Catfish and bullheads			33,900	$2,543	7,300	547		
Paddlefish or spoonbill cat			20,100	1,407	1,200	88		
Sheepshead, fresh-water					13,500	675		
Crabs, hard	756,000	$11,336						
Shrimp							3,103,800	$137,985
Total	756,000	11,336	54,000	3,950	51,000	2,960	3,103,800	137,985

Species	Pots		Spears		Dredges		Tongs		By hand	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Catfish and bullheads	75,400	$5,661								
Flounders			16,400	$1,562						
Oysters, market:										
Public, spring					643,600	$27,681	282,500	$13,902		
Public, fall							197,400	15,572		
Private, spring							48,800	3,077		
Private, fall							62,900	5,913		
Terrapin, diamond-back									9,300	$930
Total	75,400	5,661	16,400	1,562	643,600	27,681	591,600	38,464	9,300	930

OPERATING UNITS: BY COUNTIES

Item	Baldwin	Mobile
	Number	*Number*
Fishermen:		
On vessels	11	157
On boats and shore:		
Regular	87	566
Casual	25	85
Total	123	808

Fisheries of Alabama, 1937—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Baldwin	Mobile
Vessels, motor:	*Number*	*Number*
5 to 10 tons	2	17
11 to 20 tons	1	16
41 to 50 tons	----	1
61 to 70 tons	----	1
Total vessels	3	35
Total net tonnage	32	462
Boats:		
Motor	34	230
Other	72	340
Apparatus:		
Haul seines	2	4
Length, yards	1,200	2,300
Gill nets, stake	12	----
Square yards	2,525	----
Trammel nets	38	128
Square yards	20,600	61,800
Lines:		
Hand	26	98
Hooks	31	172
Trot with baits or snoods	6	96
Baits or snoods	1,600	28,300
Trot with hooks	82	197
Hooks	24,400	58,700
Fyke nets	15	75
Otter trawls, shrimp	11	166
Yards at mouth	158	2,481
Pots, fish	165	490
Spears	21	33
Dredges, oyster	2	23
Yard at mouth	2	23
Tongs, oyster	36	208

CATCH: BY COUNTIES

Species	Baldwin		Mobile	
	Pounds	*Value*	*Pounds*	*Value*
Bluefish	5,100	$445	23,200	$1,277
Blue runner or hardtail	----	----	14,300	351
Buffalofish	6,000	500	23,000	1,150
Catfish and bullheads	32,000	2,401	84,600	6,350
Croaker	10,900	249	20,100	452
Drum:				
Black	600	21	7,100	249
Red or redfish	13,400	1,005	53,300	3,997
Flounders	8,800	853	28,500	2,707
Groupers	14,400	504	204,800	7,166
King whiting or "kingfish"	2,600	72	4,600	138
Mullet	856,200	24,569	2,877,200	83,451
Paddlefish or spoonbill cat	4,600	326	16,700	1,169
Pompano	800	158	1,000	180
Sea catfish	4,600	111	21,000	479
Sheepshead:				
Fresh-water	3,300	165	10,200	510
Salt-water	4,700	235	36,700	1,835
Snapper, red	15,300	1,077	1,152,900	82,790
Spanish mackerel	7,800	631	15,500	1,385
Spot	11,100	249	24,400	550
Squeteagues or "sea trout":				
Spotted	38,300	3,658	107,200	10,192
White	5,700	181	16,800	545
Sturgeon	3,100	233	----	----
Tenpounder	2,500	50	17,900	358
Crabs, hard	20,000	300	736,000	11,036
Shrimp	199,000	8,998	2,904,800	128,987
Oysters, market:				
Public, spring	71,000	3,249	855,100	38,334
Public, fall	19,100	1,496	178,300	14,076
Private, spring	24,900	1,368	23,900	1,709
Private, fall	30,800	2,467	32,100	3,446
Terrapin, diamond-back	3,700	370	5,600	560
Total	1,420,300	55,941	9,496,800	405,429

MISSISSIPPI

Fisheries of Mississippi, 1937

OPERATING UNITS: BY GEAR

Item	Haul seines	Trammel nets	Lines			Cast nets
			Hand	Troll	Trot, with baits or snoods	
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels			24			
On boats and shore:						
Regular	52	74	61	6	172	15
Casual	4		35		11	26
Total	56	74	120	6	183	41
Vessels, motor:						
5 to 10 tons			3			
21 to 30 tons			1			
Total			4			
Net tonnage			48			
Boats:						
Motor	12	26	18	3	65	
Other	12	59	43		106	5
Apparatus:						
Number	12	59	120	6	173	41
Length, yards	4, 800					
Square yards		29, 850				
Hooks, baits, or snoods			149	6	101, 600	

Item	Otter trawls, shrimp	Spears	Dredges, oyster	Tongs, oyster	By hand, other than for oysters	Total, exclusive of duplication
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	424		793			983
On boats and shore:						
Regular	1, 003	16	155	634	2	1, 670
Casual	22	29		20	2	116
Total	1, 449	45	948	654	4	2, 769
Vessels:						
Motor:						
5 to 10 tons	105		61			113
11 to 20 tons	80		77			103
21 to 30 tons	6		12			14
31 to 40 tons	1		1			2
41 to 50 tons			1			1
Total	192		152			233
Net tonnage	2, 131		1, 989			2, 831
Sail:						
5 to 10 tons			3			3
11 to 20 tons			4			4
Total			7			7
Net tonnage			84			84
Total vessels	192		159			240
Total net tonnage	2, 131		2, 073			2, 915
Boats:						
Motor	503		35	111		605
Other				522		633
Apparatus:						
Number	695	45	385	621		
Yards at mouth	10, 637		388			

Fisheries of Mississippi, 1937—Continued

CATCH: By gear

Species	Haul seines		Trammel nets		Lines			
					Hand		Troll	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Croaker			5, 200	$160	2, 400	$73		
Drum:								
Black			7, 600	250	3, 700	112		
Red or redfish			104, 900	5, 245	18, 300	915		
Flounders			5, 500	495				
Groupers					128, 600	3, 857		
King whiting or "kingfish"			7, 500	234	900	28		
Mullet			153, 600	4, 610				
Pompano			100	15				
Sea catfish			8, 300	166	2, 500	50		
Sheepshead			29, 300	1, 172	3, 800	152		
Snapper, red					303, 800	21, 251		
Spanish mackerel							700	$84
Spot			1, 200	39				
Squeteagues or "sea trout":								
Spotted			122, 100	10, 990	88, 500	7. 965		
White			108, 900	3, 956	53, 400	2, 076		
Crabs, hard					16, 700	292		
Shrimp, Mississippi	180, 000	$8, 100						
Total	180, 000	8, 100	554, 200	27, 332	622, 600	36, 771	700	84

Species	Lines—Continued		Cast nets		Otter trawls		Spears	
	Trot with baits or snoods							
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Flounders					1, 500	$135	20, 800	$1, 842
Mullet			7, 500	$225				
Crabs:								
Hard	1, 418, 100	$24, 909						
Soft and peelers	1, 800	306						
Shrimp:								
Mississippi					4, 493, 300	202, 197		
Louisiana					18, 884, 700	849, 927		
Total	1, 419, 900	25, 215	7, 500	225	23, 379, 500	1, 052, 259	20, 800	1, 842

Species	Dredges		Tongs		By hand	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Oysters, market:						
Public, spring, Mississippi	2, 136, 700	$93, 975	2, 030, 200	$97, 039		
Public, fall, Mississippi	27, 500	2, 145	307, 300	20, 081		
Public, spring, Louisiana	8, 087. 000	347, 679	86, 000	4, 105		
Public, fall, Louisiana	123, 700	5, 813	95, 700	8, 502		
Terrapin, diamond-back					600	$48
Total	10, 374, 900	449, 612	2, 519, 200	129, 727	600	48

OPERATING UNITS: By counties

Item	Hancock	Harrison	Jackson
Fishermen:	*Number*	*Number*	*Number*
On vessels	25	887	71
On boats and shore:			
Regular	169	1, 429	72
Casual	13	84	19
Total	207	2, 400	162
Vessels:			
Motor:			
5 to 10 tons	3	107	3
11 to 20 tons	2	95	6
21 to 30 tons		12	2

Fisheries of Mississippi, 1937—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Hancock	Harrison	Jackson
Vessels—Continued.			
Motor—Continued.	*Number*	*Number*	*Number*
31 to 40 tons		2	
41 to 50 tons		1	
Total	5	217	11
Net tonnage	51	2,624	156
Sail:			
5 to 10 tons		1	2
11 to 20 tons	1	3	
Total	1	4	2
Net tonnage	14	53	17
Total vessels	6	221	13
Total net tonnage	65	2,677	173
Boats:			
Motor	39	548	18
Other	120	441	72
Apparatus:			
Haul seines		12	
Length, yards		4,800	
Trammel nets	21	27	11
Square yards	10,400	14,150	5,300
Lines:			
Hand	32	47	41
Hooks	32	58	59
Troll	6		
Hooks	6		
Trot with baits or snoods	1	149	23
Baits or snoods	450	89,350	11,800
Cast nets	6	30	5
Otter trawls, shrimp	34	649	12
Yards at mouth	504	9,946	187
Spears	7	23	15
Dredges, oyster	13	344	28
Yards at mouth	14	346	28
Tongs, oyster	96	484	41

CATCH; BY COUNTIES

Species	Hancock		Harrison		Jackson	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Croaker	3,500	$105	3,000	$90	1,100	$38
Drum:						
Black	7,000	210	3,300	114	1,000	38
Red or redfish	46,500	2,325	58,300	2,915	18,400	920
Flounders	6,000	540	19,000	1,680	2,800	252
Groupers			67,000	2,010	61,600	1,847
King whiting or "kingfish"	3,300	99	2,700	81	2,400	82
Mullet	23,000	690	42,500	1,275	95,600	2,870
Pompano					100	15
Sea catfish	7,700	154	2,300	46	800	16
Sheepshead	9,500	380	3,600	144	20,000	800
Snapper, red			87,000	6,290	216,800	14,961
Spanish mackerel	700	84				
Spot					1,200	39
Squeteagues or "sea trout":						
Spotted	84,000	7,561	109,500	9,855	17,100	1,539
White	28,000	1,120	38,000	1,520	96,300	3,392
Crabs:						
Hard	2,100	37	1,269,700	22,308	163,000	2,856
Soft and peelers			1,800	306		
Shrimp:						
Mississippi	196,000	8,812	4,195,100	188,785	102,200	4,600
Louisiana	952,500	43,029	17,852,200	803,307	260,000	11,691
Oysters, market:						
Public, spring, Mississippi	408,500	23,229	3,244,200	144,639	514,200	23,146
Public, fall, Mississippi	50,600	3,180	229,200	13,822	55,000	5,224
Public, spring, Louisiana	246,500	10,794	7,663,500	329,671	263,000	11,319
Public, fall, Louisiana	21,900	1,422	197,500	12,893		
Terrapin, diamond-back					600	48
Total	2,097,300	103,771	35,089,400	1,541,751	1,893,200	85,693

LOUISIANA

Fisheries of Louisiana, 1937

OPERATING UNITS: BY GEAR

Item	Haul seines	Gill nets, runaround	Trammel nets	Lines			Fyke nets	Dip nets,
				Hand	Trot with baits or snoods	Trot with hooks		Common
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels				10				
On boats and shore:								
Regular	514	2	105	148	576	439	53	36
Casual	81		11	174	291	111	36	29
Total	595	2	116	332	867	550	89	65
Vessels, motor:								
5 to 10 tons				1				
11 to 20 tons				1				
Total				2				
Net tonnage				18				
Boats:								
Motor	91	1	50	84	177	174	33	
Other	117	1	26	188	700	421	56	34
Apparatus:								
Number	131	1	57	332	876	550	428	65
Length, yards	27, 570							
Square yards		550	12, 760					
Hooks, baits, or snoods				347	220, 550	235, 800		

Item	Dip nets—Continued	Cast nets	Otter trawls, shrimp	Brush traps	Dredges, oyster	Tongs, oyster	By hand, other than for oysters	Total, exclusive of duplication
	Drop							
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels			379		136	35		502
On boats and shore:								
Regular	149	73	3, 762	144	130	804	12	5, 565
Casual	56	91	23		6	7	12	693
Total	205	164	4, 164	144	272	846	24	6, 760
Vessels, motor:								
5 to 10 tons			158		25	14		179
11 to 20 tons			23		9	1		25
21 to 30 tons			2					2
Total			183		34	15		206
Net tonnage			1, 394		310	103		1, 567
Boats:								
Motor	22		1, 878	30	34	259		2, 468
Other	168	67		114		385		1, 712
Accessory boats						15		15
Apparatus:								
Number	8, 925	160	2, 096	28, 300	129	827		
Yards at mouth			26, 976		129			

Fisheries of Louisiana, 1937—Continued

CATCH: BY GEAR

Species	Haul seines		Gill nets, runaround		Trammel nets		Lines	
							Hand	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Buffalofish	421,300	$22,240			5,000	$250	1,000	$55
Cabio or crab eater							200	4
Catfish and bullheads	377,700	28,854			3,500	263	16,000	1,180
Croaker	66,500	1,766			24,900	811	45,200	1,300
Drum:								
Black	100,400	2,732			15,300	484	49,400	1,404
Red or redfish	257,000	16,945	1,000	$60	92,600	5,900	99,000	5,918
Flounders	16,600	1,338			22,300	2,187		
Garfish	6,000	120			200	4		
Groupers							6,100	244
Jewfish							17,000	765
King whiting or "kingfish"	1,800	44			24,000	820		
Mullet	7,700	231			3,000	90		
Paddlefish or spoonbill cat	500	25						
Pompano							800	195
Sea catfish	4,600	92			5,200	105	4,000	82
Sheepshead:								
Fresh-water	305,900	8,113					1,000	25
Salt-water	108,000	5,507	200	10	32,700	1,640	46,100	2,917
Snapper, red							148,100	12,068
Spanish mackerel							2,000	200
Spot	3,200	64			500	15		
Squeteagues or "sea trout":								
Spotted	332,400	29,820	5,000	450	169,200	14,004	281,100	24,293
White	69,900	2,321	300	12	35,900	1,928	93,500	3,932
Tripletail	1,000	50					1,000	50
Crabs:								
Hard	250,000	2,610					70,000	740
Soft and peelers	60,000	9,700						
Shrimp	2,264,700	58,678						
Terrapin, diamond-back	500	60						
Total	4,655,700	191,310	6,500	532	434,300	28,501	881,500	55,372

Species	Lines—Continued.				Fyke nets		Dip nets	
	Trot with baits or snoods		Trot with hooks				Common	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Buffalofish			22,400	$1,295	233,800	$10,942		
Catfish and bullheads			1,190,600	91,703	4,500	370		
Paddlefish or spoonbill cat			48,400	2,784	500	25		
Sheepshead, fresh-water			67,800	2,210	215,500	5,835		
Crabs:								
Hard	12,887,000	$141,630					13,600	$501
Soft and peelers	32,000	5,080					9,800	1,437
Total	12,919,000	146,710	1,329,200	97,992	454,300	17,172	23,400	1,938

Species	Dip nets—Continued.		Cast nets		Otter trawls		Brush traps	
	Drop							
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Flounders					15,000	$870		
Crabs:								
Hard	1,496,500	$49,330						
Soft and peelers	84,500	13,090					143,000	$21,650
Shrimp			101,000	$3,530	66,415,200	2,320,332		
Total	1,581,000	62,420	101,000	3,530	66,430,200	2,321,202	143,000	21,650

Fisheries of Louisiana, 1937—Continued

CATCH: BY GEAR—Continued

Species	Dredges		Tongs		By hand	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Oysters, market:						
Public, spring	1, 316, 400	$71, 536	79, 400	$4, 689		
Public, fall	51, 200	4, 993	11, 700	1, 167		
Private, spring	1, 561. 600	100, 802	2, 672, 800	224, 886		
Private, fall	240, 600	22, 504	2, 114, 400	221, 939		
Terrapin, diamond-back					3, 200	$340
Total	3, 169, 800	199, 835	4, 878, 300	452, 681	3, 200	340

OPERATING UNITS: BY PARISHES

Item	Calcasieu	Cameron	Iberia	Jefferson	Jefferson Davis	Lafourche	Orleans	Plaquemines
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels		3		66		105	26	104
On boats and shore:								
Regular	15	250	54	1, 086	30	666	179	785
Casual	28	9	57	16	23	3	107	63
Total	43	262	111	1, 168	53	774	312	952
Vessels, motor:								
5 to 10 tons				26		43	6	34
11 to 20 tons		1		3		5		4
21 to 30 tons				2				
Total		1		31		48	6	38
Net tonnage		11		259		335	39	280
Boats:								
Motor	23	124	48	479	28	289	92	335
Other	20	13	55	215	22	53	133	236
Accessory boats								8
Apparatus:								
Haul seines	1	1	6	10		5	9	7
Length, yards	150	350	1, 800	4, 070		1, 670	1, 130	3, 050
Gill nets, runaround			1					
Square yards			550					
Trammel nets			3	3			3	15
Square yards			500	590			1, 600	3, 080
Lines:								
Hand	4		5	52	9		57	10
Hooks	4		5	52	9		62	10
Trot with baits or snoods	3	4	4	115	12	3	31	108
Baits or snoods	250	700	800	36, 000	1, 200	600	11, 700	40, 500
Trot with hooks	31		80	17	39			
Hooks	33, 700		37, 500	2, 400	23, 500			
Fyke nets	68		47		42			
Dip nets, drop				750			3, 300	
Cast nets				14			88	
Otter trawls, shrimp		125	1	467	1	306	45	314
Yards at mouth		1, 517	10	5, 994	11	4, 097	609	3, 845
Brush traps				28, 300				
Dredges, oyster			4	2		18	12	28
Yards at mouth			4	2		18	12	28
Tongs, oyster		8	7	22		110	2	245

NOTE.—The catch as shown above for Louisiana does not include the following products, which were taken by Mississippi craft in Louisiana waters: Shrimp, 19,064,700 pounds, valued at $858,027; oysters, market, spring, 8,173,000 pounds of meats, valued at $351,784; and oysters, market, fall, 219,400 pounds of meats, valued at $14,315. These products have been included with the Mississippi catch.

Fisheries of Louisiana, 1937—Continued

OPERATING UNITS: BY PARISHES—Continued

Item	St. Bernard	St. Charles	St. John the Baptist	St. Mary	St. Tammany	Tangipahoa	Terrebonne	Vermilion
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	29	--------	--------	56	10	--------	99	4
On boats and shore:								
Regular	370	116	2	554	77	36	1,299	46
Casual	67	38	9	100	70	36	32	35
Total	466	154	11	710	157	72	1,430	85
Vessels, motor:								
5 to 10 tons	10	--------	--------	16	1	--------	42	1
11 to 20 tons	--------	--------	--------	7	2	--------	3	--------
Total	10	--------	--------	23	3	--------	45	1
Net tonnage	76	--------	--------	225	35	--------	299	8
Boats:								
Motor	159	48	1	187	11	31	589	24
Other	130	85	7	420	94	29	174	26
Accessory boats	--------	--------	--------	--------	1	--------	6	--------
Apparatus:								
Haul seines	41	5	4	11	5	5	11	10
Length, yards	4,150	1,330	120	3,830	850	2,000	1,320	1,750
Trammel nets	8	--------	--------	--------	--------	3	19	3
Square yards	1,560	--------	--------	--------	--------	1,200	3,080	1,150
Lines:								
Hand	25	12	--------	42	69	--------	47	--------
Hooks	25	12	--------	52	69	--------	47	--------
Trot with baits or snoods	120	70	--------	380	1	--------	8	17
Baits or snoods	24,300	20,800	--------	78,000	850	--------	1,150	3,700
Trot with hooks	--------	76	2	267	--------	38	--------	--------
Hooks	--------	22,500	900	81,500	--------	33,800	--------	--------
Fyke net	--------	--------	--------	237	--------	34	--------	--------
Dip nets:								
Common	--------	--------	--------	--------	53	12	--------	--------
Drop	1,850	--------	125	--------	2,300	600	--------	--------
Cast nets	--------	--------	4	--------	34	20	--------	--------
Otter trawls, shrimp	133	30	--------	119	10	--------	537	8
Yards at mouth	1,653	394	--------	1,727	126	--------	6,908	85
Dredges, oyster	18	--------	--------	7	6	--------	23	11
Yards at mouth	18	--------	--------	7	6	--------	23	11
Tongs, oyster	6	--------	--------	6	13	--------	404	4

CATCH: BY PARISHES

Species	Calcasieu		Cameron		Iberia		Jefferson	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Buffalofish	76,300	$3,052	--------	--------	41,500	$1,660	400	$20
Cabio or crab eater	--------	--------	--------	--------	--------	--------	200	4
Catfish and bullheads	15,800	1,422	--------	--------	106,000	9,540	25,000	1,750
Croaker	1,000	40	--------	--------	2,200	88	4,500	90
Drum:								
Black	--------	--------	500	$15	500	20	14,000	180
Red or redfish	1,400	84	1,000	60	7,700	462	23,000	1,250
Flounders	--------	--------	100	10	--------	--------	400	32
Garfish	--------	--------	1,000	20	200	4	--------	--------
Paddlefish or spoonbill cat	5,400	270	--------	--------	3,000	150	--------	--------
Pompano	--------	--------	--------	--------	--------	--------	800	195
Sea catfish	--------	--------	300	6	--------	--------	3,000	60
Sheepshead:								
Fresh-water	7,300	255	--------	--------	127,000	4,445	--------	--------
Salt-water	300	15	500	25	3,700	185	4,000	200
Spanish mackerel	--------	--------	--------	--------	--------	--------	2,000	200
Squeteague or "sea trout":								
Spotted	4,000	400	8,000	800	17,000	1,530	96,800	6,976
White	--------	--------	500	20	4,600	184	28,000	560
Tripletail	--------	--------	--------	--------	--------	--------	1,000	50
Crabs:								
Hard	5,000	125	10,000	250	4,500	130	3,363,500	35,920
Soft and peelers	--------	--------	--------	--------	--------	--------	171,400	25,910
Shrimp	--------	--------	3,940,400	157,640	23,400	1,020	14,781,800	469,669
Oysters, market:								
Public, spring	--------	--------	6,100	590	--------	--------	46,.400	2,580
Public, fall	--------	--------	5,800	580	1,900	216	--------	--------
Private, spring	--------	--------	--------	--------	17,900	1,509	101,000	8,020
Private, fall	--------	--------	--------	--------	15,700	1,803	71,400	7,436
Total	116,500	5,663	3,974,200	160,016	376,800	22,946	18,738,600	561,102

Fisheries of Louisiana, 1937—Continued

CATCH: By parishes—Continued

Species	Jefferson Davis		Lafourche		Orleans		Plaquemines	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Buffalofish	32,000	$1,120						
Catfish and bullheads	83,000	7,050						
Croaker	500	20			16,000	$405	22,200	$705
Drum:								
Black					12,000	360	10,900	299
Red or redfish					71,000	4,045	48,700	3,425
Flounders					1,200	96	22,000	2,198
Grouper					6,100	244		
Jewfish					17,000	765		
King whiting or "kingfish"							23,000	790
Mullet					4,500	135		
Paddlefish or spoonbill cat	1,000	50						
Sea catfish							5,300	106
Sheepshead:								
Fresh-water	28,000	840						
Salt-water					32,900	1,545	21,000	1,075
Snapper, red					45,000	3,820		
Spot					500	10	1,500	35
Squeteague or "sea trout":								
Spotted	5,000	500			73,500	7,025	101,000	10,100
White					40,500	1,575	26,200	936
Tripletail							1,000	50
Crabs:								
Hard	25,000	625	12,000	$140	857,000	30,960	2,080,000	23,280
Soft and peelers					11,500	1,725		
Shrimp	35,000	1,400	10,951,600	399,138	1,449,000	50,209	9,395,500	372,694
Oysters, market:								
Public, spring					21,900	1,876	639,500	34,450
Public, fall					15,500	1,498	16,100	1,580
Private, spring			698,400	46,272	245,800	20,654	1,322,100	121,029
Private, fall			450,600	49,283	161,000	16,100	1,057,800	114,244
Total	209,500	11,605	12,112,600	494,833	3,081,900	143,047	14,793,800	686,996

Species	St. Bernard		St. Charles		St. John the Baptist		St. Mary	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Buffalofish			50,000	$2,500			438,000	$24,165
Catfish and bullheads			301,700	19,002	4,900	$368	851,700	68,136
Croaker	56,400	$1,218						
Drum:								
Black	75,800	1,644						
Red or redfish	122,900	8,603						
Flounders	11,900	952					4,000	200
Paddlefish or spoonbill cat							36,400	2,184
Sea catfish	1,600	32						
Sheepshead:								
Fresh-water			2,000	40			405,000	10,007
Salt-water	74,800	4,280						
Snapper, red							103,100	8,248
Spot	1,700	34						
Squeteague or "sea trout":								
Spotted	177,000	15,780						
White	30,000	1,454						
Crabs:								
Hard	1,775,000	17,950	223,700	2,237	22,000	880	5,728,800	57,288
Soft and peelers	93,000	15,040			500	75		
Shrimp	4,332,200	151,618	944,500	32,113	10,500	368	5,318,600	198,745
Oysters, market:								
Public, spring	433,200	24,180						
Public, fall							3,600	297
Private, spring	36,400	2,700					161,600	12,543
Private, fall	1,000	88					40,100	3,475
Terrapin, diamond-back	1,500	180						
Total	7,224,400	245,753	1,521,900	55,892	37,900	1,691	13,090,900	385,288

Fisheries of Louisiana 1937—Continued

CATCH: BY PARISHES—Continued

Species	St. Tammany		Tangipahoa		Terrebonne		Vermilion	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Buffalofish	500	$25	37,000	$1,850	7,800	$390		
Catfish and bullheads	2,500	175	160,500	12,043	41,200	2,884		
Croaker	13,200	434			12,600	497	8,000	$380
Drum:								
Black					46,000	1,840	5,400	262
Red or redfish	21,700	1,412	3,500	280	131,200	7,872	17,500	1,330
Flounders					14,000	880	300	27
Garfish							5,000	100
King whiting or "kingfish"					2,800	74		
Mullet	800	24			5,400	162		
Paddlefish or spoonbill cat			3,600	180				
Sea catfish	500	10			3,100	65		
Sheepshead:								
Fresh-water			12,000	240	8,900	356		
Salt-water	27,200	1,519			10,600	530	12,000	700
Squeteagues or "sea trout":								
Spotted	112,200	11,060			159,200	11,146	34,000	3,250
White	43,500	1,740			17,700	1,380	8,600	344
Crabs:								
Hard	376,000	18,186	128,000	5,120	61,000	610	45,600	1,110
Soft and peelers	45,400	7,155	7,500	1,052				
Shrimp	351,300	12,771	20,000	700	16,961,400	525,135	265,700	9,320
Oysters, market:								
Public, spring	248,700	12,549						
Public, fall	20,000	1,989						
Private, spring					1,370,200	97,839	281,000	15,122
Private, fall					519,100	48,598	38,300	3,416
Terrapin, diamond-back					2,200	220		
Total	1,263,500	69,049	372,100	21,465	19,374,400	700,478	721,400	35,361

TEXAS

Fisheries of Texas, 1937

OPERATING UNITS: BY GEAR

Item	Haul seines	Gill nets		Trammel nets	Lines			
		Runaround	Stake		Hand	Troll	Trot with baits or snoods	Trot with hooks
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels					64			
On boats and shore:								
Regular	127	80	141	188	167	4	17	103
Casual	7			21	131	3	32	2
Total	134	80	141	209	362	7	49	105
Vessels, motor:								
5 to 10 tons					1			
11 to 20 tons					5			
21 to 30 tons					2			
31 to 40 tons					1			
Total					9			
Net tonnage					152			
Boats:								
Motor	20	32	29	105	91	4	9	40
Other	7	7	53	4	119		40	45
Apparatus:								
Number	44	131	352	106	362	7	49	77
Length, yards	15,150							
Square yards		32,650	84,090	57,700				
Hooks, baits, or snoods					441	7	14,700	64,500

Fisheries of Texas, 1937—Continued

OPERATING UNITS: BY GEAR—Continued

Item	Dip nets	Otter trawls, shrimp	Pots, crab	Spears	Dredges, oyster	Tongs, oyster	By hand, oyster	Total, exclusive of duplication
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels		90			19			161
On boats and shore:								
Regular	24	770	22	52	159	60		1, 382
Casual	10		7	82		52	4	296
Total	34	860	29	134	178	112	4	1, 839
Vessels, motor:								
5 to 10 tons		36			4			36
11 to 20 tons		9			1			14
21 to 30 tons								2
31 to 40 tons								1
Total		45			5			53
Net tonnage		389			46			535
Boats:								
Motor		385	10		53	31		624
Other	13		12	9		54		294
Apparatus:								
Number	34	430	800	134	58	110		
Square yards		6, 677						
Yards at mouth					60			

CATCH: BY GEAR

Species	Haul seines		Gill nets				Trammel nets	
			Runaround		Stake			
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Croaker	6, 700	$201	11, 600	$260	16, 100	$341	30, 400	$865
Drum:								
Black	150, 700	5, 539	346, 700	7, 576	512, 400	10, 651	141, 900	4, 482
Red or redfish	152, 300	11, 193	149, 500	10, 511	149, 300	10, 150	266, 900	17, 124
Flounders	5, 600	513	3, 300	312	500	43	8, 500	764
King whiting or "kingfish"							3, 000	65
Mullet			1, 300	36	400	11	4, 900	112
Pompano					200	30	4, 200	843
Sea catfish	2, 000	60	5, 900	314	600	17	8, 400	220
Sheepshead	8, 900	267	4, 200	150	4, 800	129	21, 500	645
Snook or sergeantfish	3, 000	210	1, 000	40	2, 000	80	1, 000	70
Spanish mackerel	4, 300	341	4, 100	249	1, 800	116	9, 400	624
Spot	3, 000	60	1, 000	20			8, 000	160
Squeteagues or "sea trout":								
Spotted	239, 000	20, 580	512, 200	43, 833	559, 300	47, 760	478, 600	39, 526
White	500	15	3, 100	83	1, 000	26	10, 400	297
Total	576, 000	38, 979	1, 043, 900	63, 384	1, 248, 400	69, 354	997, 100	65, 797

Fisheries of Texas, 1937—Continued

CATCH: BY GEAR—Continued

Species	Lines							
	Hand		Troll		Trot with baits or snoods		Trot with hooks	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Buffalofish							3, 400	$204
Catfish and bullheads							66, 600	3, 325
Croaker	13, 800	$394					4, 000	120
Drum:								
Black	137, 700	3, 951					259, 600	7, 731
Red or redfish	98, 000	7, 241					138, 500	8, 447
Flounders	2, 500	232					2, 700	248
Groupers	19, 600	638						
Jewfish	2, 700	91						
Kingfish or "king mackerel"			3, 000	$107				
Pompano	100	15						
Sea catfish	2, 100	62					12, 300	311
Sheepshead	1, 700	50						
Snapper, red	1, 141, 200	79, 781						
Snook or sergeantfish	2, 200	154						
Spanish mackerel	17, 200	1, 081	2, 000	100				
Squeteagues or "sea trout":								
Spotted	234, 200	17, 460					66, 500	5, 987
White	4, 500	131						
Crabs, hard					301, 800	$7, 707		
Total	1, 677, 500	111, 281	5, 000	207	301, 800	7, 707	553, 600	26, 373

Species	Dip nets		Otter trawls		Pots		Spears	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Flounders							87, 500	$8, 058
Crabs, hard	212, 900	$5, 650			406, 900	$11, 220		
Shrimp			16, 904, 800	$551, 404				
Total	212, 900	5, 650	16, 904, 800	551, 404	406, 900	11, 220	87, 500	8, 058

Species	Dredges		Tongs		By hand	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Oysters, market:						
Public, spring	508, 800	$35, 550	106, 500	$8, 902	2, 700	$245
Public, fall	446, 300	34, 112	123, 600	11, 666	1, 700	156
Total	955, 100	69, 662	230, 100	20, 568	4, 400	401

OPERATING UNITS: BY COUNTIES

Item	Aransas	Brazoria	Calhoun	Cameron	Galveston	Harris
	Number	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:						
On vessels	2		10	12	88	
On boats and shore:						
Regular	130	9	179	163	244	26
Casual	34	6	12	15	54	15
Total	166	15	201	190	386	41
Vessels, motor:						
5 to 10 tons			4	1	14	
11 to 20 tons	1			1	8	
21 to 30 tons					2	
31 to 40 tons					1	
Total	1		4	2	25	
Net tonnage	13		26	20	294	
Boats:						
Motor	53	5	101	41	121	16
Other	24	4	30	41	42	12
Apparatus:						
Haul seines	3		3		7	
Length, yards	300		300		1, 750	

Fisheries of Texas, 1937—Continued

OPERATING UNITS: BY COUNTIES—Continued

Item	Aransas	Brazoria	Calhoun	Cameron	Galveston	Harris
Apparatus—Continued.						
Gill nets:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Runaround	34			70		
Square yards	7,100			17,500		
Stake	19			267		
Square yards	3,600			64,100		
Trammel nets	21		27		13	9
Square yards	14,000		15,000		4,500	2,700
Lines:						
Hand	35	9	10	57	84	
Hooks	35	9	10	57	156	
Troll				5		
Hooks				5		
Trot with baits or snoods					34	11
Baits or snoods					10,500	3,100
Trot with hooks		5	18			2
Hooks		1,800	4,500			700
Dip nets	28					
Otter trawls, shrimp	27	1	66	28	103	
Yards at mouth	436	13	890	462	1,762	
Pots, crab			660		140	
Spears	14		14	4	4	
Dredges, oyster	18		8		3	1
Yards at mouth	20		8		3	1
Tongs, oyster	9	3	18	3	21	12

Item	Jefferson	Kleberg	Matagorda	Nueces	San Patricio	Willacy
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	2		25	2	20	
On boats and shore:						
Regular	71	20	179	174	177	10
Casual	2		27	86	33	12
Total	75	20	231	262	230	22
Vessels, motor:						
5 to 10 tons	1		8	1	7	
11 to 20 tons			1		3	
Total	1		9	1	10	
Net tonnage	8		82	7	85	
Boats:						
Motor	34	4	87	65	92	5
Other	2	12	14	78	25	10
Apparatus:						
Haul seines			1	28	2	
Length, yards			100	12,500	200	
Gill nets:						
Runaround			3	22	2	
Square yards			1,650	5,800	600	
Stake				60	6	
Square yards				15,200	1,190	
Trammel nets			16		20	
Square yards			8,900		12,600	
Lines:						
Hand	7	14		84	44	18
Hooks	14	14		84	44	18
Troll					2	
Hooks					2	
Trot with baits or snoods	2			2		
Baits or snoods	200			900		
Trot with hooks		16		21	5	10
Hooks		17,000		22,000	4,500	14,000
Dip nets				3	3	
Otter trawls, shrimp	33		61	29	82	
Yards at mouth	584		928	407	1,195	
Spears			24	64	10	
Dredges, oyster			24	4		
Yards at mouth			24	4		
Tongs, oyster			23	18	3	

Fisheries of Texas, 1937—Continued

CATCH: BY COUNTIES

Species	Aransas		Brazoria		Calhoun		Cameron	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Buffalofish					800	$48		
Catfish and bullheads					55, 700	2, 785		
Croaker	9, 200	$276			6, 100	183	25, 000	$500
Drum:								
Black	62, 800	2, 220	600	$24	67, 100	2, 044	837, 900	16, 758
Red or redfish	66, 700	4, 759	12, 400	992	75, 200	5, 075	206, 400	14, 181
Flounders	22, 200	1, 776	100	10	17, 100	1, 690	3, 200	316
Groupers			200	6			5, 000	200
Jewfish							1, 000	40
Kingfish or "king mackerel"							2, 600	91
Mullet	200	6						
Pompano					3, 900	780	200	30
Sea catfish	9, 000	403			16, 900	422		
Sheepshead	2, 200	66			5, 600	168	4, 000	95
Snapper, red			24, 000	1, 680			104, 600	7, 168
Snook or sargeantfish					4, 000	280	3, 000	120
Spanish mackerel	9, 900	594			5, 000	347	4, 800	240
Spot							1, 000	20
Squeteagues or "sea trout":								
Spotted	122, 100	9, 768	200	20	135, 100	10, 974	987, 300	81, 075
White	5, 200	155			1, 600	48	1, 800	36
Crabs, hard	194, 000	5, 190			333, 200	9, 210		
Shrimp	909, 200	28, 343	24, 000	960	1, 865, 800	57, 275	830, 200	31, 497
Oysters, market:								
Public, spring	100, 400	7, 596	2, 300	188	82, 400	6, 317	5, 400	490
Public, fall	79, 500	7, 082	5, 900	576	80, 600	6, 993	3, 500	320
Total	1, 592, 600	68, 234	69, 700	4, 456	2, 756, 100	104, 639	3, 026, 900	153, 177

Species	Galveston		Harris		Jefferson		Kleberg	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Croaker	9, 000	$225						
Drum:								
Black	17, 000	510					159, 800	$4, 794
Red or redfish	101, 000	6, 060	26, 200	$1, 724			25, 800	1, 806
Flounders	3, 700	318					1, 100	99
Groupers	11, 400	342			3, 000	$90		
Jewfish	1, 000	30			700	21		
King whiting or "kingfish"	2, 000	40						
Mullet	2, 000	40						
Sea catfish			500	15				
Sheepshead	10, 000	300						
Snapper, red	867, 500	60, 725			140, 000	9, 800		
Spanish mackerel	7, 200	576						
Spot	6, 000	120						
Squeteagues or "sea trout":								
Spotted	158, 000	12, 640	53, 000	4, 480			30, 500	2, 745
White	1, 500	30						
Crabs, hard	223, 200	5, 785	126, 900	3, 188	5, 500	200		
Shrimp	4, 669, 000	172, 381			1, 428, 400	52, 849		
Oysters, market:								
Public, spring	39, 200	3, 170	36, 900	3, 180				
Public, fall	19, 500	2, 020	25, 600	2, 375				
Total	6, 148, 200	265, 312	269, 100	14, 962	1, 577, 600	62, 960	217, 200	9, 444

Fisheries of Texas, 1937—Continued

CATCH: BY COUNTIES—Continued

Species	Matagorda		Nueces		San Patricio		Willacy	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Buffalofish			2, 600	$156				
Catfish and bullheads			10, 900	540				
Croaker	7, 800	$234	2, 900	87	22, 600	$676		
Drum:								
Black	64, 500	1, 935	175, 200	6, 726	63, 100	2, 514	101, 000	$2, 405
Red or redfish	92, 000	5, 920	242, 200	16, 108	80, 500	6, 340	26, 100	1, 701
Flounders	20, 100	1, 910	30, 100	2, 880	12, 500	1, 126	500	45
Kingfish or "king mackerel"					400	16		
King whiting or "kingfish"	1, 000	25						
Mullet	2, 800	69	1, 600	44				
Pompano	300	63			100	15		
Sea catfish			1, 000	30	3, 300	99	600	15
Sheepshead	7, 600	228	11, 100	363	600	21		
Snapper, red			5, 100	408				
Snook or sargeantfish					2, 200	154		
Spanish mackerel	2, 400	168	800	64	8, 600	516	100	6
Spot	2, 000	40	3, 000	60				
Squeteagues or "sea trout":								
Spotted	116, 500	9, 875	317, 500	28, 305	169, 600	15, 264		
White	4, 400	133	1, 000	30	4, 000	120		
Crabs, hard			32, 900	844	5, 900	160		
Shrimp	3, 099, 000	84, 623	967, 300	30, 019	3, 111, 900	93, 457		
Oysters:								
Public, spring	325, 100	21, 640	22, 800	1, 853	3, 500	263		
Public, fall	292, 900	20, 966	63, 300	5, 532	800	70		
Total	4, 038, 400	147, 829	1, 891, 300	94, 049	3, 489, 600	120, 811	128, 300	4, 172

FISHERIES OF THE PACIFIC COAST STATES[9]

The yield of the commercial fisheries of the Pacific Coast States (Washington, Oregon, and California) during 1937 amounted to 1, 576, 877, 400 pounds, valued at $28, 776, 385 to the fishermen, representing a decrease of 18 percent in volume, but an increase of 16 percent in value as compared with the catch in the previous year. These fisheries gave employment to 21, 555 fishermen as compared with 20,620 in 1936.

There were 330 fishery wholesale and manufacturing establishments in the three States in 1937, as compared with 339 in 1936. During 1937 these establishments employed 19,792 persons, paid $10,669,409 in salaries and wages, and produced manufactured products (canned, cured, packaged, and byproducts) valued at $56,149,695. In 1936 the wholesale and manufacturing firms employed 16,589 persons, paid $9,365,375 in salaries and wages, and produced manufactured products valued at $52,498,170.

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[9] Data on the operating units and catch of the fisheries of the Pacific Coast States have been taken largely from statistics collected by the various State agencies. Supplementary surveys, compilations, and analyses have been made by agents of this Bureau in order that the figures may be presented in a manner comparable with those of other sections. While statistics of the fisheries of California are for the calendar year, those for Oregon and Washington are for the fiscal year ending March 31, 1938, except that statistics of the halibut fishery in these latter States are for the calendar year. For a clearer understanding of the statistics published in this section the reader is referred to the section in the latter part of this document entitled "Statistical survey procedure."

Fisheries of the Pacific Coast States, 1937

SUMMARY OF CATCH

Product	Washington		Oregon	
	Pounds	*Value*	*Pounds*	*Value*
Fish	143, 928, 900	$6, 147, 971	64, 257, 300	$2, 200, 760
Shellfish, etc	11, 876, 100	1, 074, 376	4, 687, 600	408, 479
Total	155, 805, 000	7, 222, 347	68, 944, 900	2, 609, 239

Product	California		Total	
	Pounds	*Value*	*Pounds*	*Value*
Fish	1, 345, 570, 600	$18, 374, 105	1, 553, 756, 800	$26, 722, 836
Shellfish, etc	5, 418, 800	529, 471	21, 982, 500	2, 012, 326
Whale products	1, 138, 100	41, 223	1, 138, 100	41, 223
Total	1, 352, 127, 500	18, 944, 799	1, 576, 877, 400	28, 776, 385

OPERATING UNITS: BY STATES

Item	Washington				Oregon		
	Puget Sound district	Coastal district	Columbia River district	Total	Columbia River district	Coastal district	Total
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	3, 367	81	25	3, 473	129	49	178
On boats and shore	1, 852	3, 794	888	6, 534	2, 036	1, 228	3, 264
Total	5, 219	3, 875	913	10, 007	2, 165	1, 277	3, 442
Vessels:							
Steam, 21 to 30 tons	1	-------	-------	1	-------	-------	-------
Net tonnage	23	-------	-------	23	-------	-------	-------
Motor:							
5 to 10 tons	161	38	7	206	37	12	49
11 to 20 tons	142	3	3	148	10	4	14
21 to 30 tons	134	-------	1	135	-------	-------	-------
31 to 40 tons	44	-------	-------	44	-------	-------	-------
41 to 50 tons	31	-------	-------	31	-------	-------	-------
51 to 60 tons	11	-------	-------	11	-------	-------	-------
61 to 70 tons	12	-------	-------	12	1	-------	1
101 to 110 tons	-------	-------	-------	-------	1	1	2
Total	535	41	11	587	49	17	66
Net tonnage	10, 970	293	113	11, 376	578	261	839
Sail:							
391 to 400 tons	1	-------	-------	1	-------	-------	-------
411 to 420 tons	1	-------	-------	1	-------	-------	-------
561 to 570 tons	1	-------	-------	1	-------	-------	-------
Total	3	-------	-------	3	-------	-------	-------
Net tonnage	1, 374	-------	-------	1, 374	-------	-------	-------
Total vessels	539	41	11	591	49	17	66
Total net tonnage	12, 367	293	113	12. 773	578	261	839
Boats:							
Motor	826	481	619	1, 926	910	835	1, 745
Other	271	207	22	500	80	110	190
Accessory boats	275	-------	-------	275	2	1	3
Apparatus:							
Purse seines:							
Herring	4	-------	-------	4	-------	-------	-------
Length, yards	468	-------	-------	468	-------	-------	-------
Salmon	212	-------	-------	212	-------	-------	-------
Length, yards	115, 500	-------	-------	115, 500	-------	-------	-------
Sardine [1]	17	-------	-------	17	2	1	3
Length, yards	7, 240	-------	-------	7, 240	885	500	1, 385
Haul seines	170	4	1	175	44	4	48
Length, yards	12, 392	280	167	12, 839	23, 072	666	23, 738

[1] Used in the pilchard fishery of the Washington and Oregon coasts by Puget Sound purse seine vessels. See separate sections for catch statistics.

Fisheries of the Pacific Coast States, 1937—Continued

OPERATING UNITS: BY STATES—Continued

Item	Washington				Oregon		
	Puget Sound district	Coastal district	Columbia River district	Total	Columbia River district	Coastal district	Total
Apparatus—Continued.							
Gill nets:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Drift	416	184	471	1,071	703	410	1,113
Square yards	628,160	354,752	1,303,728	2,286,640	2,240,082	577,690	2,817,772
Set	[2] 4	[2] 125		[2] 129	137	903	1,040
Square yards	960	27,600		28,560	38,360	321,480	359,840
Lines:							
Trawl, set, and hand	26,418		349	26,767	706	160	866
Hooks	546,786		17,680	564,466	18,940	2,880	21,820
Troll	1,360	650	195	2,205	808	415	1,223
Hooks	6,010	2,925	862	9,797	3,426	1,840	5,266
Pound nets	[2] 2			[2] 2	27		27
Brush weirs	4			4			
Dip nets	23	60	222	305	163		163
Reef nets	37			37			
Beam trawls	10			10			
Yards at mouth	66			66			
Otter trawls	43			43	2	2	4
Yards at mouth	645			645	40	40	80
Traps:							
Crab	2,541	2,863		5,404		16,835	16,835
Crawfish					1,125		1,125
Octopus	247			247			
Dredges, oyster		4		4			
Yards at mouth		8		8			
Tongs and rakes, oyster	120	230		350		18	18
Shovels	467	3,023		3,490		177	177

Item	California						Grand total
	Northern district	San Francisco district	Monterey district	San Pedro district	San Diego district	Total	
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	31	1,293	729	2,336	1,059	5,448	9,099
On boats and shore	263	850	458	838	249	2,658	12,456
Total	294	2,143	1,187	3,174	1,308	8,106	21,555
Vessels:							
Steam:							
11 to 20 tons		1				1	1
21 to 30 tons		1				1	2
31 to 40 tons		1				1	1
Total		3				3	4
Net tonnage		73				73	96
Motor:							
5 to 10 tons	17	16	19	45	30	127	382
11 to 20 tons		19	1	23	16	59	221
21 to 30 tons		5	1	43	5	54	189
31 to 40 tons		28	2	35	8	73	11[illegible]
41 to 50 tons		17	9	16	3	45	76
51 to 60 tons		12	19	39	2	72	83
61 to 70 tons		17	9	15	1	42	55
71 to 80 tons		6	9	7	7	29	29
81 to 90 tons		3	1	1	4	9	9
91 to 100 tons		2		3	2	7	7
101 to 110 tons					2	2	4
111 to 120 tons				4	5	9	9
121 to 130 tons				1	4	5	5
131 to 140 tons				1	7	8	8
141 to 150 tons				1	2	3	3
151 to 160 tons					2	2	2
161 to 170 tons				1	1	2	2

[2] Operated on Indian reservations.

Fisheries of the Pacific Coast States, 1937—Continued

OPERATING UNITS: BY STATES—Continued

Item	California						Grand total
	Northern district	San Francisco district	Monterey district	San Pedro district	San Diego district	Total	
Vessels—Continued.							
Motor—Continued.	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
171 to 180 tons				1	1	2	2
181 to 190 tons				1	2	3	3
191 to 200 tons					3	3	3
201 to 210 tons				2		2	2
291 to 300 tons					1	1	1
361 to 370 tons				1		1	1
Total	17	125	70	240	108	560	1, 213
Net tonnage	127	5, 029	3, 055	9, 950	6, 674	24, 835	37, 050
Sail:							
321 to 330 tons		1				1	1
391 to 400 tons							1
411 to 420 tons							1
491 to 500 tons		1				1	1
561 to 570 tons							1
Total		2				2	5
Net tonnage		824				824	2, 198
Total vessels	17	130	70	240	108	565	1, 222
Total net tonnage	127	5, 926	3, 055	9, 950	6, 674	25, 732	39, 344
Boats:							
Motor	203	521	209	432	121	1, 486	5, 157
Other	3	47	24	45	2	121	811
Accessory boats		176	61	232	106	575	853
Apparatus:							
Purse seines:							
Herring							4
Length, yards							468
Mackerel			2	12		14	14
Length, yards			1, 200	5, 537		6, 737	6, 737
Salmon							212
Length, yards							115, 500
Sardine or pilchard		89	50	107		246	266
Length, yards		34, 052	18, 385	41, 457		93, 894	102, 519
Tuna		7	11	84		102	102
Length, yards		4, 100	6, 352	49, 783		60, 235	60, 235
Lampara and ring nets:							
Mackerel		1	1	56	9	67	67
Length, yards		400	440	28, 438	3, 150	32, 428	32, 428
Sardine or pilchard		15	24	77	18	134	134
Length, yards		4, 425	6, 487	37, 768	4, 421	53, 101	53, 101
Other			17	13	2	32	32
Length, yards			3, 230	6, 162	1, 000	10, 392	10, 392
Haul seines		4				4	227
Length yards		580				580	37, 157
Gill nets:							
Drift:							
Barracuda				5	5	10	10
Square yards				45, 000	15, 000	60, 000	60, 000
Salmon		115				115	2, 299
Square yards		362, 250				362, 250	5, 466, 662
Sea bass		7	12			19	19
Square yards		12, 460	24, 000			36, 460	36, 460
Shad		125				125	125
Square yards		437, 000				437, 000	437, 000
Set:							
"California halibut"			14			14	14
Square yards			33, 796			33, 796	33, 796
Crab			10			10	10
Square yards			33, 600			33, 600	33, 600
Salmon							1, 169
Square yards							388, 400
Sea bass				13	9	22	22
Square yards				41, 600	43, 942	85, 542	85, 542
Miscellaneous	17	46	33	21	4	121	121
Square yards	12, 750	56, 174	43, 915	18, 700	6, 080	137, 619	137, 619
Trammel nets				22	9	31	31
Square yards				93, 432	86, 665	180, 097	180, 097

Fisheries of the Pacific Coast States, 1937—Continued

OPERATING UNITS: By States—Continued

Item	California						Grand total
	Northern district	San Francisco district	Monterey district	San Pedro district	San Diego district	Total	
Apparatus—Continued.							
Lines:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Trawl, set, and hand	299	759	766	1, 946	1, 289	5, 059	32, 692
Hooks	39, 978	38, 095	80, 268	288, 041	36, 903	483, 285	1, 069, 571
Troll	1, 083	1, 266	1, 500	1, 580	560	5, 989	9, 417
Hooks	4, 723	4, 484	3, 846	1, 612	560	15, 225	30, 288
Pound nets							29
Brush weirs							4
Fyke nets		1, 989				1, 989	1, 989
Dip nets	24	3				27	495
Bag nets, shrimp		9				9	9
Length, yards		6, 656				6, 656	6, 656
Reef nets							37
Paranzella nets		10		4		14	14
Yards at mouth		167		67		234	234
Beam trawls		15				15	25
Yards at mouth		100				100	166
Otter trawls			7			7	54
Yards at mouth			78			78	803
Traps:							
Crab	703	5, 095				5, 798	28, 037
Crawfish							1, 125
Octopus			100			100	347
Sea crawfish				4, 940	781	5, 721	5, 721
Harpoons:							
Swordfish				52	15	67	67
Whales		2				2	2
Dredges, oyster							4
Yards at mouth							8
Tongs and rakes, oyster	3	41	4			48	416
Shovels	13	81	26	63		183	3, 850
Abalone outfits			14	10		24	24

CATCH: By States

Species	Washington		Oregon		California [1]		Total	
FISH	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Anchovies					226, 200	$3, 239	226, 200	$3, 239
Barracuda					2, 933, 000	160, 520	2, 933, 000	160, 520
Cabrilla					131, 200	6, 918	131, 200	6, 918
Carp	126, 700	$3, 458			36, 400	1, 418	163, 100	4, 876
Catfish					302, 900	34, 437	302, 900	34, 437
Cod [2]	7, 893, 500	114, 705	12, 700	$190	4, 731, 400	80, 671	12, 637, 600	195, 566
Flounders:								
"California halibut"					1, 206, 900	102, 234	1, 206, 900	102, 234
"Sole"	3, 773, 900	104, 526	650, 400	11, 849	8, 302, 200	457, 614	12, 726, 500	573, 989
Other	523, 200	13, 144	261, 500	2, 750	1, 566, 900	56, 506	2, 351, 600	72, 400
Flyingfish					41, 900	1, 834	41, 900	1, 834
Grayfish	1, 620, 100	14, 360			913, 100	15, 009	2, 533, 200	29, 369
Groupers					57, 900	2, 886	57, 900	2, 886
Hake					63, 400	668	63, 400	668
Halibut	23, 733, 600	2, 118, 668	367, 200	31, 670	316, 900	26, 507	24, 417, 700	2, 176, 845
Hardhead					54, 200	4, 894	54, 200	4, 894
Herring	1, 130, 800	12, 066	30, 000	402	631, 300	4, 777	1, 792, 100	17, 245
Horse mackerel					6, 541, 600	64, 803	6, 541, 600	64, 803
Kingfish					645, 600	15, 683	645, 600	15, 683
"Lingcod"	1, 611, 000	54, 723	151, 700	5, 090	968, 300	41, 287	2, 731, 000	101, 100
Mackerel					60, 936, 400	669, 377	60, 936, 400	669, 377
Marlin					4, 100	182	4, 100	182
Mullet					8, 500	731	8, 500	731

[1] Includes the catch taken off Latin America.

[2] All of the cod reported for California and most of the Washington catch were taken off Alaska.

NOTE.—In addition to the California operating units shown above, 47 motor vessels, 43 accessory boats and 7 motorboats having their home ports in the State of Washington, and 19 motor vessels, 19 accessory boats, and 21 motorboats having their home ports in the State of Oregon, were operated off California and contributed to the California catch. The following gear was operated by these craft: 45 sardine purse seines 1 tuna purse seine, 3 sardine ring nets, 6 set and hand lines, and 282 troll lines.

Fisheries of the Pacific Coast States, 1937—Continued

CATCH: BY STATES—Continued

Species	Washington		Oregon		California		Total	
FISH—contd.	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Perch	122, 500	$4, 471	600	$12	213, 400	$9, 382	336, 500	$13, 865
Pilchard or sardine	34, 429, 100	224, 093	33, 462, 500	217, 506	1, 071, 613, 400	6, 373, 234	1, 139, 505, 000	6, 814, 833
Pompano	-----	-----	-----	-----	5, 100	2, 434	5, 100	2, 434
Rock bass	-----	-----	-----	-----	324, 300	18, 024	324, 300	18, 024
Rockfishes	444, 600	19, 437	153, 800	4, 459	4, 290, 900	189, 484	4, 889, 300	213, 380
Rudderfish	-----	-----	-----	-----	36, 100	1, 783	36, 100	1, 783
Sablefish	3, 067, 500	155, 210	147, 700	6, 591	733, 600	29, 428	3, 948, 800	191, 229
Salmon:								
Blueback, red, or sockeye	6, 794, 700	702, 742	247, 000	34, 580	-----	-----	7, 041, 700	737, 322
Chinook or king	12, 624, 600	1, 067, 991	16, 059, 000	1, 270, 126	6, 907, 800	528, 993	35, 591, 400	2, 867, 110
Chum or keta	9, 855, 900	268, 049	1, 579, 100	26, 291	-----	-----	11, 435, 000	294, 340
Humpback or pink	25, 424, 500	637, 123	400	12	-----	-----	25, 424, 900	637, 135
Silver or coho	8, 952, 000	522, 599	7, 215, 800	368, 690	-----	-----	16, 167, 800	891, 289
Sculpin	-----	-----	-----	-----	145, 500	11, 002	145, 500	11, 002
Sea bass:								
Black	-----	-----	-----	-----	714, 200	39, 749	714, 200	39, 749
White	-----	-----	-----	-----	602, 300	56, 810	602, 300	56, 810
Shad	37, 600	978	524, 600	16, 184	651, 000	29, 156	1, 213, 200	46, 318
Sheepshead	-----	-----	-----	-----	81, 400	2, 998	81, 400	2, 998
Skates	-----	-----	-----	-----	447, 500	8, 511	447, 500	8, 511
Smelts:								
Eulachon	562, 100	37, 590	472, 800	33, 096	-----	-----	1, 034, 900	70, 686
Other	367, 700	21, 980	-----	-----	682, 000	29, 041	1, 049, 700	51, 021
Spanish mackerel	-----	-----	-----	-----	26, 700	1, 351	26, 700	1, 351
Splittail	-----	-----	-----	-----	10, 800	371	10, 800	371
Squawfish	-----	-----	-----	-----	500	23	500	23
Steelhead trout	339, 900	20, 810	1, 725, 100	101, 369	-----	-----	2, 065, 000	122, 179
Striped bass	-----	-----	34, 100	1, 855	-----	-----	34, 100	1, 855
Sturgeon	72, 800	3, 398	81, 900	1, 892	-----	-----	154, 700	5, 290
Suckers	-----	-----	-----	-----	7, 900	219	7, 900	219
Swordfish	-----	-----	-----	-----	625, 300	85, 006	625, 300	85, 006
Tomcod	-----	-----	-----	-----	1, 100	35	1, 100	35
Tuna and tuna-like fishes:								
Albacore	420, 600	25, 850	1, 079, 400	66, 146	2, 020, 000	194, 828	3, 520, 000	286, 824
Bluefin	-----	-----	-----	-----	12, 693, 900	724, 913	12, 693, 900	724, 913
Bonito	-----	-----	-----	-----	7, 808, 000	286, 282	7, 808, 000	286, 282
Skipjack or striped tuna	-----	-----	-----	-----	47, 104, 100	2, 318, 523	47, 104, 100	2, 318, 523
Yellowfin	-----	-----	-----	-----	91, 522, 500	5, 457, 819	91, 522, 500	5, 457, 819
Whitebait	-----	-----	-----	-----	86, 100	4, 665	86, 100	4, 665
Whitefish	-----	-----	-----	-----	57, 100	3, 032	57, 100	3, 032
Yellowtail	-----	-----	-----	-----	5, 371, 000	212, 008	5, 371, 000	212, 008
Other fish	-----	-----	-----	-----	166, 800	2, 806	166, 800	2, 806
Total	143, 928, 900	6, 147, 971	64, 257, 300	2, 200, 760	1, 345, 570, 600	18, 374, 105	1, 553, 756, 800	26, 722, 836
SHELLFISH, ETC.								
Crabs	2, 359, 800	174, 816	4, 372, 000	367, 248	1, 624, 200	179, 035	8, 356, 000	721, 099
Crawfish, fresh-water	-----	-----	84, 200	9, 262	-----	-----	84, 200	9, 262
Sea crawfish or spiny lobster	-----	-----	-----	-----	1, 322, 400	163, 659	1, 322, 400	153, 659
Shrimp	46, 900	6, 604	-----	-----	1, 111, 700	16, 915	1, 158, 600	23, 519
Abalone	-----	-----	-----	-----	572, 600	92, 654	572, 600	92, 654
Clams:								
Hard	966, 100	66, 994	-----	-----	13, 200	2, 780	979, 300	69, 774
Pismo	-----	-----	-----	-----	56, 000	10, 833	56, 000	10, 833
Razor	424, 200	79, 843	56, 500	13, 447	-----	-----	480, 700	93, 290
Soft	-----	-----	-----	-----	29, 700	7, 891	29, 700	7, 891
Mixed	-----	-----	77, 800	6, 682	-----	-----	77, 800	6, 682
Mussels	-----	-----	-----	-----	200	17	200	17
Octopus	64, 200	2, 504	-----	-----	23, 900	1, 890	88, 100	4, 394
Oysters, market:								
Eastern	800	300	-----	-----	67, 300	23, 047	68, 100	23, 347
Japanese	7, 712, 700	543, 041	87, 500	5, 400	90, 700	13, 602	7, 890, 900	562, 043
Native	266, 000	193, 950	9, 600	6, 440	5, 300	1, 768	280, 900	202, 158
Scallops, bay	24, 100	5, 745	-----	-----	-----	-----	24, 100	5, 745

Fisheries of the Pacific Coast States, 1937—Continued

CATCH: BY STATES—Continued

Species	Washington		Oregon		California		Total	
SHELLFISH, ETC.—con.	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Squid	1, 300	$79			501, 600	$15, 380	502, 900	$15, 459
Trepang	10, 000	500					10, 000	500
Total	11, 876, 100	1, 074, 376	4, 687, 600	$408, 479	5, 418, 800	529, 471	21, 982, 500	2, 012, 326
WHALE PRODUCTS								
Whale meat					624, 900	12, 207	624, 900	12, 207
Whale oil					513, 200	29, 016	513, 200	29, 016
Total					1, 138, 100	41, 223	1, 138, 100	41, 223
Grand total	155, 805, 000	7, 222, 347	68, 944, 900	2, 609, 239	1, 352, 127, 500	18, 944, 799	1, 576, 877, 400	28, 776, 385

Industries related to the fisheries of the Pacific Coast States, 1937

OPERATING UNITS, SALARIES, AND WAGES

Item	Washington	Oregon	California	Total
Transporting:	*Number*	*Number*	*Number*	*Number*
Persons engaged	144	42	24	210
Vessels, motor	52	21	3	76
Net tonnage	1, 297	266	161	1, 724
Wholesale and manufacturing:				
Establishments	113	48	169	330
Persons engaged:				
Proprietors	63	39	275	377
Salaried employees	246	90	818	1, 154
Wage earners:				
Average for season	3, 046	1, 149	14, 066	18, 261
Average for year	1, 305	551	5, 133	6, 989
Paid to salaried employees	$591, 984	$188, 075	$2, 478, 881	$3, 258, 940
Paid to wage earners	$1, 454, 320	$555, 729	$5, 400, 420	$7, 410, 469
Total salaries and wages	$2, 046, 304	$743, 804	$7, 879, 301	$10, 669, 409
Fishermen manufacturing	59	18	75	152

PRODUCTS MANUFACTURED

Item	Washington		Oregon		California	
By manufacturing firms:	*Quantity*	*Value*	*Quantity*	*Value*	*Quantity*	*Value*
Barracuda, fresh fillets pounds					650, 000	$97, 500
Cabrilla, fresh fillets do					55, 000	8, 450
Cod:						
Salted:						
Dry do	470, 925	$38, 876				
Boneless and absolutely boneless pounds	917, 047	138, 966			(1)	(1)
Fresh fillets do	41, 623	4, 281				
Flounders:						
Fresh fillets do	848, 659	110, 405	(1)	(1)	1, 825, 000	352, 500
Frozen fillets do	144, 335	18, 763	(1)	(1)		
Grayfish, fresh fillets do					25, 000	3, 125
Halibut, frozen steaks do	109, 755	17, 476				
Lingcod, fresh fillets do	121, 130	12, 372	(1)	(1)	75, 000	11, 250
Mackerel:						
Canned standard cases					839, 450	2, 657, 370
Meal tons					2, 194	77, 827
Oil gallons					80, 811	30, 812
Pilchard:						
Canned standard cases					2, 812, 456	8, 592, 117
Meal tons	2, 871	104, 762	2, 822	$102, 966	83, 729	3, 117, 554
Oil gallons	824, 332	319, 344	689, 393	281, 155	14, 479, 491	5, 603, 117
Rockfishes, fresh fillets pounds	(1)	(1)	(1)	(1)	1, 050, 000	157, 500

See footnotes at end of table.

Industries related to the fisheries of the Pacific Coast States, 1937—Continued

PRODUCTS MANUFACTURED—Continued

Item	Washington		Oregon		California	
	Quantity	*Value*	*Quantity*	*Value*	*Quantity*	*Value*
By manufacturing firms—Contd.						
Sablefish:						
Fresh steaks……pounds	----	----	----	----	25,000	$3,750
Kippered……do	290,052	$49,827	----	----	206,016	41,203
Salted……do	202,275	12,505	(1)	(1)	----	----
Salmon:						
Frozen steaks……do	25,355	3,999	(1)	(1)	----	----
Salted:						
Mild-cured [2]……do	2,596,500	524,405	466,675	$107,923	830,400	166,196
Eggs for caviar……do	274,000	29,740	----	----	----	----
Kippered……do	1,190,761	211,942	(1)	(1)	----	----
Smoked……do	213,143	60,582	159,321	52,828	225,277	97,573
Canned:						
Blueblack, red, or sockeye……standard cases	65,184	1,073,911	5,071	88,209	----	----
Chinook or king……do	87,322	1,083,480	213,690	2,999,670	----	----
Chum or keta……do	34,525	151,159	31,472	133,204	----	----
Humpback or pink……do	328,790	1,590,266	----	----	----	----
Silver or coho……do	38,957	399,045	63,672	676,765	----	----
Steelhead trout……do	3,523	35,276	13,166	155,180	----	----
Eggs for bait……do	4,896	72,550	(1)	(1)	----	----
Oil……gallons	(1)	(1)	[3] 33,165	[3] 51,686	----	----
Sea bass:						
Black, fresh steaks……pounds	----	----	----	----	250,000	40,000
White, fresh fillets……do	----	----	----	----	175,000	41,000
Shad:						
Canned……standard cases	1,214	4,128	2,160	7,361	5,845	19,065
Roe, canned……do	(1)	(1)	633	13,926	1,189	34,424
Sheephead, fresh fillets……pounds	----	----	----	----	25,000	3,750
Swordfish, fresh steaks……do	----	----	----	----	100,000	25,000
Totuava, fresh steaks……do	----	----	----	----	515,000	93,000
Tuna and tunalike fishes:						
Canned:						
Albacore……standard cases	(1)	(1)	(1)	(1)	104,683	726,532
Bluefin……do	----	----	----	----	211,886	1,197,421
Bonito……do	----	----	----	----	152,175	771,498
Striped……do	----	----	----	----	695,007	3,917,454
"Tonno"……do	----	----	----	----	252,857	1,915,779
Yellowfin……do	----	----	----	----	1,649,776	10,038,641
Yellowtail……do	----	----	----	----	62,974	309,692
Meal……tons	----	----	----	----	10,872	378,531
Oil……gallons	----	----	----	----	141,963	30,702
Crabs:						
Canned……standard cases	----	----	499	14,886	----	----
Meat, packaged, fresh-cooked……pounds	103,149	38,186	536,579	206,698	----	----
Abalone, steaks……do	----	----	----	----	541,000	165,154
Clams, hard:						
Fresh-shucked……gallons	3,559	4,535	(1)	(1)	----	----
Canned:						
Whole……standard cases	25,339	108,785	----	----	----	----
Minced……do	22,397	106,443	----	----	----	----
Juice……do	5,305	11,565	----	----	----	----
Shells, crushed for poultry feed……tons	1,050	9,100	----	----	----	----
Clams, razor:						
Canned:						
Whole……standard cases	1,246	10,466	(1)	(1)	----	----
Minced……do	14,334	120,767	1,288	10,718	----	----
Oysters:						
Japanese:						
Fresh-shucked……gallons	299,738	360,697	45,174	52,174	(1)	(1)
Canned……standard cases	109,192	462,049	(1)	(1)	----	----
Native, fresh-shucked……gallons	19,401	154,970	6,598	51,287	(1)	(1)
Shell products:						
Poultry feed……tons	6,065	53,455	(1)	(1)	14,402	67,533
Lime……do	2,609	15,535	(1)	(1)	1,505	6,377
Shrimp, bran and meal……do	----	----	----	----	71	1,810
Unclassified:						
Packaged……pounds	[4] 104,875	[4] 18,465	[5] 142,093	[5] 30,158	(6)	(6)
Salted……do	[7] 504,268	[7] 39,073	(6)	(6)	[8] 1,138,098	[8] 147,310
Smoked……do	(6)	(6)	(6)	(6)	[9] 63,650	[9] 11,115
Canned:						
Cat and dog food……standard cases	----	----	----	----	189,309	548,086
Other……do	[10] 5,498	[10] 47,038	[11] 7,256	[11] 63,762	(6)	(6)
Meal……tons	[12] 1,139	[12] 51,738	(6)	(6)	[13] 1,340	[13] 30,701
Oil……gallons	[14] 152,899	[14] 1,088,583	----	----	[15] 76,123	[15] 198,562
Miscellaneous	----	[16] 11,682	----	[17] 27,984	----	[18] 501,572
Total	----	8,781,192	----	5,128,540	----	42,238,553

See footnotes at end of table.

Industries related to the fisheries of the Pacific Coast States, 1937—Continued

PRODUCTS MANUFACTURED—Continued

Item	Washington		Oregon		California	
	Quantity	*Value*	*Quantity*	*Value*	*Quantity*	*Value*
By fishermen:						
Cod, green salted [2] pounds	2,310,240	$106,325			1,466,700	$80,671
Cod tongues, salted do	18,940	1,615				
Sablefish, salted do	58,100	1,995				
Crab meat, packaged, fresh-cooked do			3,200	$1,120		
Shrimp:						
Meat, packaged, fresh-cooked do					55,934	7,831
Bran tons					47	1,410
Clams, mixed, fresh-shucked gallons			8,645	10,374		
Scallops, bay, fresh-shucked do	998	2,220				
Total		112,155		11,494		89,912
Grand total		8,893,347		5,140,034		42,328,465

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[1] The production of this item has been included under "Unclassified products."

[2] This item is usually an intermediate product, and although included in the total, may be shown in its final stage of processing in this or another State.

[3] Includes the production of both edible and industrial salmon oils.

[4] Includes fresh fillets of rockfishes; frozen fillets of halibut and "lingcod"; and fresh-shucked bay scallops.

[5] Includes fresh fillets of flounders, "lingcod", and rockfishes; frozen fillets of flounders, "lingcod", and salmon; frozen salmon steaks; and fresh-shucked hard clams.

[6] The production of this item has been included under "miscellaneous."

[7] Includes green salted cod in process, partly boned, spiced herring, and salmon bellies.

[8] Includes salted barracuda, black sea bass, white sea bass, bonito, mackerel, pilchards, and yellowtail; pickled and spiced herring; green salted cod in process, partly boned; and boneless and absolutely boneless salted cod.

[9] Includes smoked chubs, herring, mackerel, and miscellaneous fish.

[10] Includes canned salted cod, shad roe, albacore tuna, fish paste, and hard clam chowder.

[11] Includes canned salmon eggs for bait, kippered sturgeon, albacore tuna, whole razor clams, razor clam juice, and Japanese oysters.

[12] Includes salmon, salmon egg, grayfish, and miscellaneous fish meals.

[13] Includes shark and miscellaneous fish meals, and miscellaneous green scrap.

[14] Includes salmon, grayfish, and miscellaneous fish oils; and halibut, "lingcod," sablefish, and tuna liver oils.

[15] Includes shark and whale oil; and shark and miscellaneous fish liver oils.

[16] Includes smoked herring bloaters, and kippered herring; kelp products; and clam-shell lime.

[17] Includes salted sablefish; smoked shad and sturgeon, and kippered salmon; salmon and salmon egg meals; oyster-shell poultry feed and lime; and marine-shell novelties.

[18] Includes fresh-shucked, eastern, Japanese, and native oysters; fresh-cooked shrimp meat; sun-dried shrimp; canned tuna roe and squid; liquid glue; kelp products; and marine-shell novelties.

NOTE.—The total value of manufactured products in the Pacific Coast States was as follows: By manufacturing establishments, $56,148,285; and by fishermen, $213,561. Some of the above products may have been imported from another State or foreign country; therefore, they cannot be correlated directly with the catch within the State. All of the persons engaged in the preparation of fishermen's manufactured products have also been included as fishermen.

WASHINGTON

Fisheries of Washington, 1937

CATCH: BY DISTRICTS

Species	Puget Sound district		Coastal district		Columbia River district	
FISH	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Carp					126,700	$3,458
Cod [1]	7,893,500	$114,705				
Flounders:						
"Sole"	3,772,400	104,496	1,500	$30		
Other	493,000	12,818			30,200	326
Grayfish	1,620,100	14,360				
Halibut	23,689,200	2,114,323	1,300	100	43,100	4,245
Herring	1,130,800	12,066				
"Lingcod"	1,598,000	54,204	10,200	408	2,800	111
Perch	122,500	4,471				
Pilchard or sardine	22,500	450	34,406,600	223,643		
Rockfishes	428,000	18,943	300	6	16,300	488
Sablefish	2,862,800	146,070			204,700	9,140

[1] Nearly all of the cod were taken off Alaska.

Fisheries of Washington, 1937—Continued

CATCH: BY DISTRICTS—Continued

Species	Puget Sound district		Coastal district		Columbia River district	
FISH—continued	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Salmon:						
Blueback, red, or sockeye	6,287,100	$644,259	419,500	$46,149	88,100	$12,334
Chinook or king	5,572,100	486,169	1,925,400	173,801	5,127,100	408,021
Chum or keta	7,757,000	239,683	1,247,200	15,590	851,700	12,776
Humpback or pink	25,419,700	636,893	4,800	230		
Silver or coho	6,432,600	371,148	1,614,300	101,930	905,100	49,521
Shad					37,600	978
Smelt:						
Eulachon	10,200	760			551,900	36,830
Surf or silver	319,300	19,318	48,400	2,662		
Steelhead trout			21,300	2,012	318,600	18,798
Sturgeon			41,200	2,678	31,600	720
Tuna, albacore	1,300	96	277,600	17,255	141,700	8,499
Total	95,432,100	4,995,232	40,019,600	586,494	8,477,200	566,245
SHELLFISH, ETC.						
Crabs	484,100	24,760	1,875,700	150,056		
Shrimp	46,900	6,604				
Clams:						
Hard:						
Butter	471,800	25,275				
Little neck	494,300	41,719				
Razor			424,200	79,843		
Octopus	64,200	2,504				
Oysters, market:						
Eastern			800	300		
Japanese	630,700	47,302	7,082,000	495,739		
Native	262,500	192,000	3,500	1,950		
Scallops, bay	24,100	5,745				
Squid	1,300	79				
Trepang	10,000	500				
Total	2,489,900	346,488	9,386,200	727,888		
Grand total	97,922,000	5,341,720	49,405,800	1,314,382	8,477,200	566,245

Fisheries of the Puget Sound District of Washington, 1937

OPERATING UNITS: BY GEAR

Item	Purse seines			Haul seines	Gill nets		Lines		Pound nets [2]	Brush weirs
	Salmon	Sardine[1]	Herring		Drift	Set [2]	Trawl, set, and hand	Troll		
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	1,671	193	14	40			1,204	278		
On boats and shore	8			434	445	4	166	186	4	4
Total	1,679	193	14	474	445	4	1,370	464	4	4
Vessels:										
Motor:										
5 to 10 tons	12			10			11	129		
11 to 20 tons	85		1				35	18		
21 to 30 tons	86		3				43	1		
31 to 40 tons	26	1					16			
41 to 50 tons	1	3					28			
51 to 60 tons		5					7			
61 to 70 tons		8					4			
Total	210	17	4	10			144	148		
Net tonnage	4,481	994	90	64			4,241	1,108		

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[1] Operated in the Oregon and Washington coast pilchard fishery. See separate sections for catch statistics.

[2] Fished only on Indian reservations.

Fisheries of the Puget Sound District of Washington, 1937—Continued

OPERATING UNITS: BY GEAR—Continued

Item	Purse seines			Haul seines	Gill nets		Lines		Pound nets	Brush weirs
	Salmon	Sardine	Herring		Drift	Set	Trawl, set, and hand	Troll		
Vessels—Continued.	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Sail:										
391 to 400 tons							1			
411 to 420 tons							1			
561 to 570 tons							1			
Total							3			
Net tonnage							1, 374			
Total vessels	210	17	4	10			147	148		
Total net tonnage	4, 481	994	90	64			5, 615	1, 108		
Boats:										
Motor	2			100	416	4	113	124	2	
Other				70			32			2
Accessory boats	212	17	4				43			2
Apparatus:										
Number	212	17	4	170	416	4	26, 418	1, 360	2	4
Length, yards	115, 500	7, 240	468	12, 392						
Square yards					628, 160	960				
Hooks							546, 786	6, 010		

Item	Dip nets	Reef nets	Beam trawls	Otter trawls	Traps		Tongs and rakes, oyster	Shovels	Total, exclusive of duplication
					Crab	Octopus			
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels			18	132					3, 367
On boats and shore	23	130	2		77	13	120	467	1, 852
Total	23	130	20	132	77	13	120	467	5, 219
Vessels:									
Steam, 21 to 30 tons			1						1
Net tonnage			23						23
Motor:									
5 to 10 tons			5	11					161
11 to 20 tons			3	22					142
21 to 30 tons				7					134
31 to 40 tons				3					44
41 to 50 tons									31
51 to 60 tons									11
61 to 70 tons									12
Total			8	43					535
Net tonnage			82	699					10, 970
Sail:									
391 to 400 tons									1
411 to 420 tons									1
561 to 570 tons									1
Total									3
Net tonnage									1, 374
Total vessels			9	43					539
Total net tonnage			105	699					12, 367
Boats:									
Motor	18	37	1		64	6	30		826
Other	5	74			13	7	85		271
Accessory boats									275
Apparatus:									
Number	23	37	10	43	2, 541	247	120	467	
Yards at mouth			66	645					

Fisheries of the Puget Sound District of Washington, 1937—Continued

CATCH: BY GEAR

Species	Purse seines		Haul seines [1]		Gill nets			
					Drift		Set[3]	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
FISH								
Cod	700	$13	300	$6				
Flounders, "sole"	800	22	11, 800	327			300	$8
Herring	676, 100	7, 214	43, 900	468				
"Lingcod"	500	10	2, 900	58			2, 900	58
Perch	2, 500	91	112, 100	4, 092				
Pilchard or sardine			22, 500	450				
Rockfishes	700	19	16, 100	428			500	13
Salmon:[6]								
Blueback, red, or sockeye	5, 564, 000	570, 310			303, 900	$31, 150		
Chinook or king	768, 400	34, 885			1, 029, 700	56, 634	3, 400	206
Chum or keta	6, 706, 400	213, 418	1, 400	35	795, 200	19, 880	129, 000	3, 225
Humpback or pink	21, 703, 600	542, 590	128, 200	3, 205	2, 305, 600	57, 640	100	2
Silver or coho	4, 141, 500	216, 678			873, 300	49, 179	22, 100	1, 470
Smelt:								
Eulachon			10, 200	760				
Surf or silver			319, 300	19, 318				
Total	39, 565, 200	1, 585, 250	668, 700	29, 147	5, 307, 700	214, 483	158, 300	4, 982
SHELLFISH								
Squid			1, 300	79				
Octopus			100	4				
Total			1, 400	83				
Grand total	39, 565, 200	1, 585, 250	670, 100	29, 230	5, 307, 700	214. 483	158, 300	4, 982

Species	Lines				Pound nets [2]		Brush weirs	
	Trawl, set and hand [3]		Troll					
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
FISH								
Cod	[4]7, 455, 000	$106, 374						
Flounders, "sole"	200	6						
Grayfish	[5]1, 620, 100	14, 360						
Halibut	23, 621, 000	2, 109, 289	68, 200	$5, 034				
Herring							407, 000	$4, 343
"Lingcod"	997, 800	41, 891	93, 300	2, 175				
Rockfishes	316, 000	16, 113						
Sablefish	2, 862, 800	146, 070						
Salmon:[6]								
Blueback, red, or sockeye					7, 500	$600		
Chinook or king			3, 647, 800	387, 396	96, 600	5, 859		
Chum or keta					41, 000	1, 025		
Humpback or pink			84, 500	3, 514	400, 400	10, 010		
Silver or coho			1, 266, 100	97, 110	39, 300	2, 074		
Tuna, albacore			1, 300	96				
Grand total	36, 872, 900	2, 434, 103	5, 161, 200	495, 325	584, 800	19, 568	407, 000	4, 343

See footnotes at end of table.

Fisheries of the Puget Sound District of Washington, 1937—Continued

CATCH: BY GEAR—Continued

Species	Dip nets		Reef nets		Beam trawls		Otter trawls	
FISH	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Cod							437, 500	$8, 312
Flounders:								
"Sole"							3, 759, 300	104, 133
Other							493, 000	12, 818
Herring	3, 800	$41						
"Lingcod"							500, 600	10, 012
Perch							7, 900	288
Rockfishes							94, 700	2, 370
Salmon:[6]								
Blueback, red or sockeye			411, 700	$42, 199				
Chinook or king			26, 200	1, 189				
Chum or keta			84, 000	2, 100				
Humpback or pink			797, 300	19, 932				
Silver or coho			90, 300	4, 637				
Total	3, 800	41	1, 409, 500	70, 057			5, 293, 000	137, 933
SHELLFISH, ETC.								
Shrimp					46, 900	$6, 604		
Octopus							5, 800	226
Scallops, bay[10]					24, 100	5. 745		
Trepang					10, 000	500		
Total					81, 000	12, 849	5. 800	226
Grand total	3. 800	41	1, 409, 500	70, 057	81, 000	12, 849	5, 298, 800	138, 159

Species	Traps				Tongs, and rakes, oyster		Shovels	
	Crab		Octopus					
SHELLFISH	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Crabs[7]	484, 100	$24, 760						
Clams, hard:[8]								
Butter							471, 800	$25, 275
Little-neck							494, 300	41, 719
Octopus			58, 300	$2, 274				
Oysters, market:[9]								
Japanese					630, 700	$47, 302		
Native					262, 500	192, 000		
Total	484, 100	24, 760	58, 300	2, 274	893, 200	239, 302	966, 100	66, 994
Grand total	484, 100	24, 760	58, 300	2, 274	893, 200	239, 302	966, 100	66, 994

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[1] Includes the catch of smelt by bag drag nets, shown separately prior to 1935.

[2] Fished only on Indian reservations.

[3] In addition, the vessels of the Pacific coast halibut fleet landed approximately 590,000 pounds of halibut, sablefish, and "lingcod" livers at Seattle, valued at $277,400.

[4] Most of these cod were taken off Alaska.

[5] Caught almost entirely for the utilization of the livers for grayfish oil. Most of the fish carcasses were discarded.

[6] Statistics on the catch of salmon except those taken by troll lines, are reported to the State in number rather than pounds. The factors used in the above table for converting number of salmon to weight in pounds were as follows: Blueback, red, or sockeye, 7 pounds; chinook, or king, 19.77 pounds; chum or keta, 10 pounds; humpback, or pink, 5 pounds; and silver, or coho, 7.97 pounds.

[7] The weight of crabs shown is based on an average of 20 pounds per dozen.

[8] Statistics on hard clams are based on yields of 28 percent edible meats for butter clams and 24 percent for little-neck clams.

[9] Statistics on oysters are based on yields of 18 percent edible meats for native oysters and 10 percent for Japanese oysters.

[10] The weight of bay scallops is based on a yield of 17 percent edible meat.

Fisheries of the coastal district of Washington, 1937

OPERATING UNITS: BY GEAR [1]

Item	Haul seines	Gill nets		Lines, troll	Dip nets	Traps, crab	Tongs and rakes, oyster	Dredges, oyster	Shovels	Total, exclusive of duplication
		Drift	Set							
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels				63		14		8		81
On boats and shore	22	223	125	154	60	63	265		3,023	3,794
Total	22	223	125	217	60	77	265	8	3,023	3,875
Vessels, motor:										
5 to 10 tons				32		6		2		38
11 to 21 tons				2		1				3
Total				34		7		2		41
Net tonnage				232		65		13		293
Boats:										
Motor		184	89	96	10	39	75			481
Other	4		36				165	2		207
Apparatus:										
Number	4	184	125	650	60	2,863	230	4	3,023	
Length, yards	280									
Square yards		354,752	27,600							
Yards at mouth								8		
Hooks				2,925						

[1] In addition, a combined fleet of 15 Puget Sound, Oregon, and California purse-seine vessels operated in the Washington coast pilchard fishery. These vessels were manned by a total of 171 fishermen and had an aggregate capacity of 963 net tons. Of the total vessels 10 were from Puget Sound, 1 from Oregon, and 4 from California. For detailed statistics regarding the operating units in this fishery, refer to the gear tables in the Puget Sound, Oregon, and California sections of this report.

CATCH: BY GEAR

Species	Purse seines, sardine		Haul seines		Gill nets			
					Drift		Set [1]	
FISH	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Pilchard or sardine	34,406,600	$223,643						
Salmon:[2]								
Blueback, red or sockeye							419,500	$46,149
Chinook or king			800	$38	548,300	$26,373	113,500	3,052
Chum or keta			1,500	19	992,100	12,401	253,600	3,170
Silver or coho			24,000	960	379,000	15,160	251,500	8,930
Smelt, surf or silver			38,500	2,118				
Steelhead trout [3]							21,300	2,012
Sturgeon					41,200	2,678		
Total	34,406,600	223,643	64,800	3,135	1,960,600	56,612	1,059,400	63,313

Species	Lines, troll		Dip nets		Otter trawls	
FISH	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Flounders, "sole"					1,500	$30
Halibut	1,300	$100				
"Lingcod"	10,200	408				
Rockfishes	300	6				
Salmon:[2]						
Chinook or king	1,262,800	144,338				
Humpback or pink	4,800	230				
Silver or coho	959,800	76,880				
Smelt, surf or silver			9,900	$544		
Tuna, albacore	277,600	17,255				
Total	2,516,800	239,217	9,900	544	1,500	30

See footnotes at end of table.

Fisheries of the coastal district of Washington, 1937—Continued

CATCH: By gear—Continued

Species	Traps, crab		Dredges, tongs, and rakes		Shovels	
SHELLFISH	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Crabs [4]	1, 875, 700	$150, 056				
Clams, razor [5]					424, 200	$79, 843
Oysters, market: [6]						
Eastern			800	$300		
Japanese			7, 082, 000	495, 739		
Native			3, 500	1, 950		
Total	1, 875, 700	150, 056	7, 086, 300	497, 989	424, 200	79, 843

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[1] Fished by Indians on their reservations.

[2] Statistics on the catch of salmon except those taken by troll lines are reported to the State in number rather than pounds. The factors used in the above table for converting number of salmon to weight in pounds were as follows: Blueback, red, or sockeye, 5 pounds; chinook or king, 20.78 pounds; chum or keta, 11.09 pounds; silver or coho, 10 pounds; and steelhead trout, 9 pounds.

[3] Steelhead trout shown in this table were taken on Indian reservations.

[4] The weight of crabs shown is based on an average of 22 pounds per dozen.

[5] The weight of razor clams shown is in pounds of edible meats, based on a yield of 42 percent of the round weight.

[6] The statistics on oysters used in this table are based on a yield of 12 percent of edible meats for Japanese and native oysters and 13 percent for eastern oysters.

Fisheries of the Columbia River district of Washington, 1937

OPERATING UNITS: By gear

Item	Haul seines	Gill nets, drift	Lines		Dip nets	Total, exclusive of duplication
			Trawl and set	Troll		
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels			7	18		25
On boats and shore	3	631	69	52	222	888
Total	3	631	76	70	222	913
Vessels, motor:						
5 to 10 tons			1	6		7
11 to 20 tons				3		3
21 to 30 tons			1			1
Total			2	9		11
Net tonnage			30	83		113
Boats:						
Motor	1	471	55	30	112	619
Other	1		14		7	22
Apparatus:						
Number	1	471	349	195	222	
Length, yards	167					
Square yards		1, 303, 728				
Hooks			17, 680	862		

Fisheries of the Columbia River district of Washington, 1937—Continued

CATCH: BY GEAR

Species	Haul seines		Gill nets, drift		Lines				Dip nets	
					Trawl and set		Troll			
FISH	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Carp	126, 700	$3, 458								
Flounders, other than "sole"			29, 300	$293	900	$33				
Halibut					43, 100	4, 245				
"Lingcod"					2, 800	111				
Rockfishes			800	8	15, 500	480				
Sablefish					204, 700	9, 140				
Salmon:										
Blueback, red or sockeye			42, 600	5, 964					45, 500	$6, 370
Chinook or king			4, 523, 700	356, 468			197, 900	$19, 600	405, 500	31, 953
Chum or keta			851, 700	12, 776						
Silver or coho			497, 300	24, 865			407, 800	24, 656		
Shad			37, 600	978						
Smelt, eulachon			371, 600	26, 012					180, 300	10, 818
Steelhead trout			285, 400	16, 839			100	6	33, 100	1, 953
Sturgeon			15, 800	360	15, 800	360				
Tuna, albacore							141, 700	8, 499		
Total	126, 700	3, 458	6, 655, 800	444, 563	282, 800	14, 369	747, 500	52, 761	664, 400	51, 094

OREGON

Fisheries of Oregon, 1937

CATCH: BY DISTRICTS

Species	Columbia River district		Coastal district	
FISH	*Pounds*	*Value*	*Pounds*	*Value*
Cod	12, 700	$190		
Flounders:				
"Sole"	538, 700	9, 747	111, 700	$2, 102
Other	260, 800	2, 732	700	18
Halibut	292, 400	25, 446	74, 800	6, 224
Herring			30, 000	402
"Lingcod"	121, 300	4, 206	30, 400	884
Perch			600	12
Pilchard or sardine			33, 462, 500	217, 506
Rockfishes	117, 000	3, 185	36, 800	1, 274
Sablefish	80, 500	3, 715	67, 200	2, 876
Salmon:				
Blueback, red or sockeye	247, 000	34, 580		
Chinook or king	13, 878, 600	1, 100, 868	2, 180, 400	169, 258
Chum or keta	1, 058, 100	15, 871	521, 000	10, 420
Humpback or pink	100	3	300	9
Silver or coho	2, 019, 300	112, 291	5, 196, 500	256, 399
Shad	241, 900	6, 290	282, 700	9, 894
Smelt, eulachon	472, 800	33, 096		
Steelhead trout	1, 614, 500	95, 256	110, 600	6, 113
Striped bass			34, 100	1, 855
Sturgeon	79, 700	1, 817	2, 200	75
Tuna, albacore	857, 200	52, 838	222, 200	13, 308
Total	21, 892, 600	1, 502, 131	42, 364, 700	698, 629
SHELLFISH				
Crabs			4, 372, 000	367, 248
Crawfish, fresh-water	84, 200	9, 262		
Clams:				
Razor			56, 500	13, 447
Mixed			77, 800	6, 682
Oysters, market:				
Japanese			87, 500	5, 400
Native			9, 600	6, 440
Total	84, 200	9, 262	4, 603, 400	399, 217
Grand total	21, 976, 800	1, 511, 393	46, 968, 100	1, 097, 846

Fisheries of the Columbia River district of Oregon, 1937

OPERATING UNITS: BY GEAR[1]

Item	Purse seines, pilchard	Haul seines	Gill nets		Lines		Pound nets	Dip nets	Otter trawls	Traps, crawfish	Total, exclusive of duplication
			Drift, salmon	Set, salmon	Trawl and set	Troll					
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	23				24	76			6		129
On boats and shore		514	1,088	78	62	141	45	163		25	2,036
Total	23	514	1,088	78	86	217	45	163	6	25	2,165
Vessels, motor:											
5 to 10 tons					2	35					37
11 to 20 tons					4	5			2		10
61 to 70 tons	1										1
101 to 110 tons	1										1
Total	2				6	40			2		49
Net tonnage	172				78	309			34		578
Boats:											
Motor		23	703	71	56	115	21			17	910
Other		44		7	6		21			8	80
Accessory boats	2										2
Apparatus:											
Number	2	44	703	137	706	808	27	163	2	1,125	
Length, yards	885	23,072									
Square yards			2,240,082	38,360							
Yards at mouth									40		
Hooks					18,940	3,426					

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[1] In addition to the operating units shown, 2 California vessels with a combined crew of 11, and a total net tonnage of 22 tons, operated a paranzella net from the Oregon Columbia River district. These craft are included in the California operating unit tables.

CATCH: BY GEAR[1]

Species	Haul seines		Gill nets				Lines	
			Drift		Set		Trawl and set	
FISH	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Flounders:								
"Sole"							17,300	$623
Other			239,800	$2,398				
Halibut							291,300	25,372
"Lingcod"							92,700	3,671
Rockfishes							65,900	2,564
Sablefish							79,500	3,675
Salmon:								
Blueback, red or sockeye	40,100	$5,614	110,800	15,512	6,200	$868		
Chinook or king	2,799,500	220,601	9,123,300	718,916	32,700	2,577		
Chum or keta	96,800	1,452	924,200	13,863	4,300	64		
Silver or coho	198,000	9,900	571,600	28,580	1,500	75		
Shad	127,600	3,318	113,300	2,946	900	23		
Smelt, eulachon			472,800	33,096				
Steelhead trout	654,600	38,621	579,900	34,214	6,800	401		
Sturgeon	1,300	30	44,800	1,021	100	2	28,200	643
Total	3.917,900	279,536	12,180,500	850,546	52,500	4,010	574,900	36,548

See footnotes at end of table.

Fisheries of the Columbia River district of Oregon, 1937—Continued

CATCH: BY GEAR—Continued

Species	Lines—Contd.		Pound nets		Dip nets		Otter trawls and paranzella nets [2]		Traps, crawfish	
	Troll									
FISH	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Cod							12,700	$190		
Flounders:										
"Sole"							521,400	9,124		
Other							21,000	334		
Halibut							1,100	74		
"Lingcod"	10,800	$131					17,800	404		
Rockfishes	38,200	382					12,900	239		
Sablefish							1,000	40		
Salmon:										
Blueback, red or sockeye			10,300	$1,442	79,600	$11,144				
Chinook or king	357,400	35,397	478,100	37,674	1,087,600	85,703				
Chum or keta			32,800	492						
Humpback or pink	100	3								
Silver or coho	1,082,800	65,466	164,900	8,245	500	25				
Shad			100	3						
Steelhead trout	500	30	228,500	13,482	144,200	8,508				
Sturgeon			400	9	4,900	112				
Tuna, albacore	857,200	52,838								
Total	2,347,000	154,247	915,100	61,347	1,316,800	105,492	587,900	10,405		
SHELLFISH										
Crawfish, fresh-water									84,200	$9,262
Grand total	2,347,000	154,247	915,100	61,347	1,316,800	105,492	587,900	10,405	84,200	9,262

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[1] Of the species listed the following are taken off the Oregon and Washington coasts but landed in the Columbia River district: "Sole", halibut, "lingcod", rockfishes, sablefish, and tuna. Most of the troll-caught salmon were also taken in coastal waters.

[2] The catch by paranzella nets was made by fishermen from California.

Fisheries of the coastal district of Oregon, 1937

OPERATING UNITS: BY GEAR

Item	Purse [1] seines, pilchard	Haul seines	Gill nets		Lines		Otter trawls	Traps, crab	Tongs and rakes, oyster	Shovels	Total, exclusive of duplication
			Drift	Set	Trawl and set	Troll					
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:											
On vessels	13				4	18	6	18			49
On boats and shore		12	503	296	2	90		255	18	177	1,228
Total	13	12	503	296	6	108	6	273	18	177	1,277
Vessels, motor:											
5 to 10 tons					1	8		8			12
11 to 20 tons						1	2	1			4
101 to 110 tons	1										1
Total	1				1	9	2	9			17
Net tonnage	104				9	73	32	82			261
Boats:											
Motor		4	410	197	1	74		250	2		835
Other		4		80					8	18	110
Accessory boats	1										1
Apparatus:											
Number	1	4	410	903	160	415	2	16,835	18	177	
Length, yards	500	666									
Square yards			577,690	321,480							
Yards at mouth							40				
Hooks					2,880	1,840					

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[1] In addition there was a combined fleet of 32 Washington, Oregon, and California purse-seine vessels operated in the Oregon coast pilchard fishery. The vessels were manned by a total of 363 fishermen and had an aggregate tonnage of 1,961 net tons. Of the total vessels, 2 were from the Columbia River district of Oregon, 8 from Washington, and 22 were from California. For detailed statistics regarding the operating units in this fishery refer to the gear tables in the Oregon Columbia River, Washington, and California sections of this report.

Fisheries of the coastal district of Oregon, 1937—Continued

CATCH: BY GEAR

Species	Purse seines, pilchard[1]		Haul seines		Gill nets, drift and set		Lines			
							Trawl and set		Troll	
FISH	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Flounders:										
"Sole"							14,800	$416		
Other							700	18		
Halibut							70,400	5,878	3,700	$299
Herring			30,000	$402						
"Lingcod"							14,200	522	3,900	83
Pilchard or sardine	33,462,500	$217,506								
Rockfishes							35,600	1,232	600	31
Sablefish							67,200	2,876		
Salmon:										
Chinook or king					1,145,700	$91,656			1,034,700	77,602
Chum or keta					521,000	10,420				
Humpback or pink									300	9
Silver or coho					3,227,600	161,380			1,968,900	95,019
Shad					282,700	9,894				
Steelhead trout					110,600	6,113				
Striped bass					34,100	1,855				
Sturgeon					2,200	75				
Tuna, albacore									222,200	13,308
Total	33,462,500	217,506	30,000	402	5,323,900	281,393	202,900	10,942	3,234,300	186.351

Species	Otter trawls		Traps, crab		Tongs and rakes		Shovels	
FISH	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Flounders, "sole"	96,900	$1,686						
Halibut	700	47						
"Lingcod"	12,300	279						
Perch	600	12						
Rockfishes	600	11						
Total	111,100	2,035						
SHELLFISH								
Crabs			4,372,000	$367,248				
Clams:								
Razor[2]							56,500	$13,447
Mixed[3]							77,800	6,682
Oysters, market:								
Japanese					87,500	$5,400		
Native					9,600	6,440		
Total			4,372.000	367,248	97,100	11,840	134,300	20,129
Grand total	111,100	2,035	4,372,000	367,248	97,100	11,840	134,300	20,129

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[1] The Oregon coast pilchard fishery was prosecuted almost entirely by Washington and California purse-seine vessels. See separate sections for data on operating units in the fishery.

[2] The weight of razor clams is that of edible meats, based on a yield of 42 percent of the round weight.

[3] Mixed clams consist principally of eastern soft-shell clams. The weight shown in that of edible meats, based on a yield of 21 percent of the round weight.

CALIFORNIA

Fisheries of California, 1937

CATCH: BY DISTRICTS

Species	Northern district		San Francisco district		Monterey district	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
FISH						
Anchovies			102, 100	$1, 531	44, 200	$854
Carp			36, 400	1, 418		
Catfish			302, 900	34, 437		
Cod [1]			4, 731, 400	80, 671		
Flounders:						
"California halibut"			8, 900	1, 338	19, 000	2, 104
"Sole"	3, 374, 000	$179, 139	4, 403, 000	258, 739	225, 000	10, 785
Other	370, 000	12, 949	1, 136, 100	40, 127	52, 500	2, 122
Grayfish	6, 400	146	396, 300	2, 058	127, 800	1, 305
Hake	700	8	59, 200	592	1, 200	12
Halibut	316, 900	26, 507				
Hardhead			54, 200	4, 894		
Herring	6, 500	50	613, 400	4, 601	4, 300	65
Horse mackerel					42, 200	2, 874
Kingfish			5, 200	262	134. 800	5, 260
"Lingcod"	449, 500	16, 745	399, 400	17, 671	117, 500	6, 770
Mackerel			11, 500	633	2, 019. 500	44, 020
Perch	11, 000	323	98, 600	3, 285	39, 900	1, 778
Pilchard or sardines			435, 550, 200	2, 727, 032	279, 194, 300	1, 694, 374
Pompano					100	47
Rockfishes	454, 600	17, 794	693, 100	39, 580	2, 127, 900	86, 564
Sablefish	571, 100	22, 295	20, 800	623	4. 200	93
Salmon	3, 834, 500	301, 712	2, 181, 300	147, 915	891, 100	79, 328
Sculpin			3, 500	87	4, 400	58
Sea bass:						
Black					100	5
White			11, 600	1, 745	28, 200	2, 969
Shad			651, 000	29, 156		
Skates	37, 600	751	330, 000	6, 600	21, 400	424
Smelt	13, 700	505	322, 800	13, 291	91, 900	4, 865
Splittail			10, 800	371		
Squawfish			500	23		
Suckers			7, 900	219		
Tomcod			1, 100	35		
Tuna and tunalike fishes:						
Albacore	200	18	700	55	582, 700	50, 985
Bonito					300	15
Whitebait	75, 800	3, 877	8, 700	621	1, 600	167
Other fish	72, 100	1, 064	80, 300	1, 207	2, 600	60
Total	9, 594, 600	583, 883	452, 232. 900	3, 420, 817	285, 778, 700	1, 997, 903
SHELLFISH						
Crabs	191, 800	15, 399	1, 418, 500	162, 532	12, 300	1, 056
Shrimp			1, 108, 700	16, 260	3, 000	655
Abalone					286, 600	63, 261
Clams:						
Hard	4, 900	608	1, 600	426		
Pismo					3, 500	866
Soft			29, 700	7, 891		
Mussels					200	17
Octopus	600	25	3, 700	234	19, 200	1, 587
Oysters, market:						
Eastern	1. 200	266	66, 100	22, 781		
Japanese			90, 700	13, 602		
Native			5, 300	1, 768		
Squid			500	30	464, 700	14, 142
Total	198, 500	16, 298	2, 724, 800	225, 524	789, 500	81, 584
WHALE PRODUCTS						
Whale meat			624, 900	12, 207		
Whale oil			513, 200	29, 016		
Total			1, 138, 100	41, 223		
Grand total	9, 793, 100	600, 181	456, 095, 800	3, 687, 564	286, 568, 200	2, 079, 487

[1] The catch of cod was taken off Alaska.

Fisheries of California, 1937—Continued

CATCH: BY DISTRICTS—Continued

Species	San Pedro district					
	Off California		Off Latin America		Total	
FISH	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Anchovies	79, 900	$854			79, 900	$854
Barracuda	1, 418, 400	76, 434	453, 400	$33, 032	1, 871, 800	109, 466
Cabrilla			59, 700	3, 359	59, 700	3, 359
Flounders:						
"California halibut"	652, 100	57, 602	27, 800	2, 502	679, 900	60, 104
"Sole"	300, 200	8, 951			300, 200	8, 951
Other	8, 300	1, 308			8, 300	1, 308
Flyingfish	41, 900	1, 834			41, 900	1, 834
Grayfish	305, 500	10, 314	2, 000	83	307, 500	10, 397
Groupers			4, 500	300	4, 500	300
Hake	2, 300	56			2, 300	56
Horse mackerel	6, 400, 800	60, 948	500	29	6, 401, 300	60, 977
Kingfish	504, 900	10, 142			504, 900	10, 142
"Lingcod"	1, 800	98			1, 800	98
Mackerel	55, 505, 200	587, 798			55, 505, 200	587, 798
Marlin	3, 600	148	500	34	4, 100	182
Mullet	3, 000	294			3, 000	294
Perch	61, 400	3, 943			61, 400	3, 943
Pilchard or sardines	347, 461, 100	1, 903, 208			347, 461, 100	1, 903, 208
Pompano	4, 700	2, 330			4, 700	2, 330
Rock bass	117, 100	8, 299	19, 400	1, 271	136, 500	9, 570
Rockfishes	712, 200	30, 780			712, 200	30, 780
Rudderfishes	35, 400	1, 764			35. 400	1, 764
Sablefish	137, 300	6, 412			137, 300	6, 412
Salmon	900	38			900	38
Sculpin	128, 400	10, 309			128, 400	10, 309
Sea bass:						
Black	17, 100	873	456, 800	26, 727	473, 900	27, 600
White	138, 200	15, 826	11, 400	1, 060	149, 600	16, 886
Sheepshead	70, 200	2, 571	1, 300	56	71, 500	2, 627
Skates	57, 100	722			57, 100	722
Smelt	249, 000	10, 145			249, 000	10, 145
Spanish mackerel			19, 000	1, 077	19, 000	1, 077
Swordfish	398, 300	56, 572			398, 300	56, 572
Tuna and tuna-like fishes:						
Albacore	1, 110, 000	111, 082			1, 110, 000	111, 082
Bluefin	9, 978, 100	572, 278	1, 316, 700	73, 591	11, 294, 800	645, 869
Bonito	4, 305, 400	161, 101	865, 600	32, 454	5, 171, 000	193. 555
Skipjack or striped tuna	575, 400	28, 771	15, 008, 700	747, 697	15, 584, 100	776, 468
Yellowfin	155, 500	9, 688	25, 961, 500	1, 545, 852	26, 117, 000	1, 555. 540
Whitefish	26, 100	1, 452	3, 900	215	30, 000	1, 667
Yellowtail	125, 000	6, 455	419, 400	17, 026	544, 400	23, 481
Other fish	9, 900	370	1, 400	93	11, 300	463
Total	431, 101, 700	3, 761, 770	44, 633, 500	2, 486, 458	475, 735, 200	6, 248, 228
SHELLFISH						
Crabs	1, 600	48			1, 600	48
Sea crawfish or spiny lobster	309, 600	57, 876	1, 500	304	311, 100	58, 180
Abalone	286, 000	29, 393			286, 000	29, 393
Clams:						
Hard	6, 700	1, 746			6, 700	1, 746
Pismo	52, 500	9, 967			52, 500	9, 967
Octopus	400	44			400	44
Squid	36, 400	1, 208			36, 400	1, 208
Total	693, 200	100, 282	1, 500	304	694. 700	100, 586
Grand total	431, 794, 900	3, 862, 052	44, 635, 000	2, 486, 762	476, 429, 900	6, 348, 814

Fisheries of California, 1937—Continued

CATCH: BY DISTRICTS—Continued

Species	San Diego district				Total	
	Off California		Off Latin America			
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
FISH						
Barracuda	375, 200	$15, 782	686, 000	$35, 272	1, 061, 200	$51, 054
Cabrilla			71, 500	3, 559	71, 500	3, 559
Flounders, "California halibut"	132, 200	9, 991	366, 900	28, 697	499, 100	38, 688
Grayfish	70, 300	983	4, 800	120	75, 100	1, 103
Groupers	100	4	53, 300	2, 582	53, 400	2, 586
Herring	7, 100	61			7, 100	61
Horse mackerel	98, 100	952			98, 100	952
Kingfish	700	19			700	19
"Lingcod"			100	3	100	3
Mackerel	3, 295, 900	35, 641	104, 300	1, 285	3, 400, 200	36, 926
Mullet	5, 500	437			5, 500	437
Perch	2. 100	36	400	17	2, 500	53
Pilchard or sardines	9, 407, 700	48, 619	100	1	9, 407, 800	48, 620
Pompano	100	17	200	40	300	57
Rock bass	113, 100	5, 225	74, 700	3, 229	187, 800	8, 454
Rockfishes	143, 600	6, 952	159, 500	7, 814	303, 100	14, 766
Rudderfishes	200	5	500	14	700	19
Sablefish	200	5			200	5
Sculpin	9, 000	539	200	9	9, 200	548
Sea bass:						
Black	3, 200	149	237, 000	11, 995	240, 200	12, 144
White	87, 500	7, 150	325, 400	28, 060	412, 900	35, 210
Sheepshead	2, 900	120	7, 000	251	9, 900	371
Skates	1, 400	14			1, 400	14
Smelt	2, 400	122	2, 200	113	4, 600	235
Spanish mackerel			7, 700	274	7, 700	274
Swordfish	191, 600	23, 953	35, 400	4, 481	227, 000	28, 434
Tuna and tunalike fishes:						
Albacore	326, 400	32, 688			326, 400	32, 688
Bluefin	844, 000	47, 393	555, 100	31, 651	1, 399, 100	79, 044
Bonito	1, 401, 500	47, 438	1, 235, 200	45, 274	2, 636, 700	92, 712
Skipjack	1, 308, 700	65, 437	30, 211, 300	1, 476, 618	31, 520, 000	1, 542, 055
Yellowfin	32, 300	1, 978	65, 373, 200	3, 900. 301	65, 405, 500	3, 902, 279
Whitefish	6, 200	305	20, 900	1, 060	27, 100	1, 365
Yellowtail	98, 500	4, 845	4, 728, 100	183, 682	4, 826, 600	188, 527
Other fish	500	12			500	12
Total	17, 968, 200	356, 872	104, 261, 000	5, 766, 402	122, 229, 200	6, 123, 274
SHELLFISH						
Sea crawfish or spiny lobster	76, 300	14. 115	935, 000	91, 364	1, 011, 300	105, 479
Grand total	18, 044, 500	370, 987	105, 196, 000	5, 857, 766	123, 240, 500	6, 228, 753

CATCH: BY WATERS

Species	Off California		Off Latin America	
	Pounds	*Value*	*Pounds*	*Value*
FISH				
Anchovies	226, 200	$3, 239		
Barracuda	1, 793, 600	92, 216	1, 139, 400	$68. 304
Cabrilla			131, 200	6, 918
Carp	36, 400	1, 418		
Catfish	302, 900	34. 437		
Cod [1]	4, 731, 400	80, 671		
Flounders:				
"California halibut"	812, 200	71, 035	394, 700	31, 199
"Sole"	8, 302, 200	457, 614		
Other	1, 566, 900	56, 506		
Flyingfish	41, 900	1, 834		
Grayfish	906, 300	14, 806	6, 800	203
Groupers	100	4	57, 800	2, 882
Hake	63, 400	668		
Halibut	316, 900	26, 507		
Hardhead	54, 200	4, 894		
Herring	631, 300	4, 777		
Horse mackerel	6, 541, 100	64, 774	500	29
Kingfish	645, 600	15. 683		
"Lingcod"	968, 200	41, 284	100	3
Mackerel	60, 832, 100	668, 092	104, 300	1, 285
Marlin	3, 600	148	500	34
Mullet	8, 500	731		
Perch	213, 000	9, 365	400	17
Pilchard or sardines	1, 071, 613, 300	6, 373, 233	100	1

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[1] The catch of cod was taken off Alaska.

Fisheries of California, 1937—Continued

CATCH: BY WATERS—Continued

Species	Off California		Off Latin America	
	Pounds	*Value*	*Pounds*	*Value*
FISH—continued				
Pompano	4, 900	$2, 394	200	$40
Rock bass	230, 200	13, 524	94, 100	4, 500
Rockfishes	4, 131, 400	181, 670	159, 500	7, 814
Rudderfishes	35, 600	1, 769	500	14
Sablefish	733, 600	29, 428		
Salmon	6, 907, 800	528, 993		
Sculpin	145, 300	10, 993	200	9
Sea bass:				
Black	20, 400	1, 027	693, 800	38, 722
White	265, 500	27, 690	336, 800	29, 120
Shad	651, 000	29, 156		
Sheepshead	73, 100	2, 691	8, 300	307
Skates	447, 500	8, 511		
Smelt	679, 800	28, 928	2, 200	113
Spanish mackerel			26, 700	1, 351
Splittail	10, 800	371		
Squawfish	500	23		
Suckers	7, 900	219		
Swordfish	589, 900	80, 525	35, 400	4, 481
Tomcod	1, 100	35		
Tuna and tunalike fishes:				
Albacore	2, 020, 000	194, 828		
Bluefin	10, 822, 100	619, 671	1, 871, 800	105, 242
Bonito	5, 707, 200	208, 554	2, 100, 800	77, 728
Skipjack or striped tuna	1, 884, 100	94, 208	45, 220, 000	2, 224, 315
Yellowfin	187, 800	11, 666	91, 334, 700	5, 446, 153
Whitebait	86, 100	4, 665		
Whitefish	32, 300	1, 757	24, 800	1, 275
Yellowtail	223, 500	11, 300	5, 147, 500	200, 708
Other fish	165, 400	2, 713	1, 400	93
Total	1, 196, 676, 100	10, 121, 245	148, 894, 500	8, 252, 860
SHELLFISH				
Crabs	1, 624, 200	179, 035		
Sea crawfish or spiny lobster	385, 900	71, 991	936, 500	91, 668
Shrimp	1, 111, 700	16, 915		
Abalone	572, 600	92, 654		
Clams:				
Hard	13, 200	2, 780		
Pismo	56, 000	10, 833		
Soft	29, 700	7, 891		
Mussels	200	17		
Octopus	23, 900	1, 890		
Oysters, market:				
Eastern	67, 300	23, 047		
Japanese	90, 700	13, 602		
Native	5, 300	1, 768		
Squid	501, 600	15, 380		
Total	4, 482, 300	437, 803	936, 500	91, 668
WHALE PRODUCTS				
Whale meat	624, 900	12, 207		
Whale oil	513, 200	29, 016		
Total	1, 138, 100	41, 223		
Grand total	1, 202, 296, 500	10, 600, 271	149, 831, 000	8, 344, 528

Fisheries of the northern district of California, 1937

OPERATING UNITS: BY GEAR

Item	Gill nets	Lines		Dip nets	Traps, crab	Shovels	Rakes, oyster	Total, exclusive of duplication
		Set and hand	Troll					
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	2	20	19					31
On boats and shore	14	89	225	24	41	13	3	263
Total	16	109	244	24	41	13	3	294
Vessels, motor:								
5 to 10 tons	1	10	13					17
Net tonnage	7	82	91					127
Boats:								
Motor	11	70	195		37			203
Other							3	3
Apparatus:								
Number	17	299	1,083	24	703	13	3	
Square yards	12,750							
Hooks		39,978	4,723					

CATCH: BY GEAR

Species	Gill nets		Lines				Paranzella nets	
			Set and hand		Troll			
FISH	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Flounders:								
"Sole"	200	$10					3,373,800	$179,129
Other	2,300	86					367,700	12,863
Grayfish			1,700	$99			4,700	47
Hake							700	8
Halibut			230,200	18,436	3,400	$272	83,300	7,799
Herring	6,500	50						
"Lingcod"			242,600	9,501	30,100	1,054	176,800	6,190
Perch	10,300	302						
Rockfishes			127,400	4,827	6,100	214	321,100	12,753
Sablefish			518,400	20,710			52,700	1,585
Salmon					3,834,500	301,712		
Skates							37,600	751
Smelt	8,400	337						
Tuna, albacore					200	18		
Other fish			13,100	342	1,800	27	57,200	695
Total	27,700	785	1,133,400	53,915	3,876,100	303,297	4,475,600	221,820
SHELLFISH								
Crabs							500	40
Octopus			600	25				
Total			600	25			500	40
Grand total	27,700	785	1,134,000	53,940	3,876,100	303,297	4,476,100	221,860

Species	Dip nets		Traps		Shovels		Rakes	
FISH	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Perch	700	$21						
Smelt	5,300	168						
Whitebait	75,800	3,877						
Total	81,800	4,066						
SHELLFISH								
Crabs			191,300	$15,359				
Clams, hard					4,900	$608		
Oysters, market, eastern							1,200	$266
Total			191,300	15,359	4,900	608	1,200	266
Grand total	81,800	4,066	191,300	15,359	4,900	608	1,200	266

NOTE.—The catch by paranzella nets was made by fishermen from the San Francisco district.

Fisheries of the San Francisco district of California, 1937

OPERATING UNITS: BY GEAR

Item	Purse seines		Lampara and ring nets		Haul seines	Gill nets	
	Sardine	Tuna	Mackerel	Sardine		Drift, salmon	Drift, sea bass
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	960	78	11	129			
On boats and shore				23	15	210	11
Total	960	78	11	152	15	210	11
Vessels, motor:							
5 to 10 tons			1	4			
11 to 20 tons				5			
21 to 30 tons	4						
31 to 40 tons	28	1		3			
41 to 50 tons	17						
51 to 60 tons	12	1					
61 to 70 tons	17	3					
71 to 80 tons	6	1					
81 to 90 tons	3						
91 to 100 tons	2	1					
Total	89	7	1	12			
Net tonnage	4, 619	471	9	217			
Boats:							
Motor				3	4	113	6
Other					1	2	1
Accessory boats	89	7	1	15			
Apparatus:							
Number	89	7	1	15	4	115	7
Length, yards	34, 052	4, 100	400	4, 425	580		
Square yards						362, 250	12, 460

Item	Gill nets—Contd.		Lines		Fyke nets	Dip nets	Bag nets, shrimp
	Drift, shad	Other	Set and hand	Troll			
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels		2	97	80			36
On boats and shore	237	50	66	264	94	3	5
Total	237	52	163	344	94	3	41
Motor:							
5 to 10 tons		1	1	5			8
11 to 20 tons			1	14			
21 to 30 tons				1			
Total		1	2	20			8
Net tonnage		6	23	267			48
Sail:							
321 to 330 tons			1				
491 to 500 tons			1				
Total			2				
Net tonnage			824				
Total vessels		1	4	20			8
Total net tonnage		6	847	267			48
Boats:							
Motor	125	29	35	250	50	1	1
Other		1	6		19	1	
Accessory boats			74				4
Apparatus:							
Number	125	46	759	1, 266	1, 989	3	9
Length, yards							6, 656
Square yards	437, 000	56, 174					
Hooks			38, 095	4, 484			

Fisheries of the San Francisco district of California, 1937—Continued

OPERATING UNITS: BY GEAR—Continued

Item	Paranzella nets	Beam trawls	Traps, crab	Harpoons, whaling	Rakes and tongs, oyster	Shovels	Total, exclusive of duplication
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	93			16			1,293
On boats and shore		16	256		41	81	850
Total	93	16	256	16	41	81	2,143
Vessels:							
Steam:							
11 to 20 tons				1			1
21 to 30 tons				1			1
31 to 40 tons	1						1
Total	1			2			3
Net tonnage	32			41			73
Motor:							
5 to 10 tons	4						16
11 to 20 tons	14						19
21 to 30 tons	1						5
31 to 40 tons							28
41 to 50 tons							17
51 to 60 tons							12
61 to 70 tons							17
71 to 80 tons							6
81 to 90 tons							3
91 to 100 tons							2
Total	19						125
Net tonnage	260						5,029
Sail:							
321 to 330 tons							1
491 to 500 tons							1
Total							2
Net tonnage							824
Total vessels	20			2			130
Total net tonnage	292			41			5,926
Boats:							
Motor		15	249		17	11	521
Other			1		19	2	47
Accessory boats							176
Apparatus:							
Number	10	15	5,095	2	41	81	
Yards at mouth	167	100					

Fisheries of the San Francisco district of California, 1937—Continued

CATCH: BY GEAR

Species	Purse seines		Lampara and ring nets		Haul seines		Gill nets	
FISH	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Anchovies			39,000	$585	63,100	$946		
Carp					7,600	114	4,900	$220
Flounders:								
"Sole"			100	4				
Other							600	17
Grayfish	10,800	$54	200	2			300	2
Hardhead					20,800	1,253		
Herring			5,000	37	335,400	2,515	272,700	2,046
Kingfish			3,800	192				
Mackerel			11,100	613				
Perch			200	7	57,500	1,895	40,900	1,383
Pilchard or sardines	415,086,300	2,594,428	20,454,700	132,512	8,500	85	700	7
Rockfishes							200	12
Salmon							973,100	58,740
Sculpin			600	19				
Sea bass, white			500	81			11,100	1,664
Shad			300	22			650,700	29,134
Smelt			68,300	2,733	18,400	792	231,800	9,511
Splittail					4,900	49	100	7
Squawfish							100	4
Suckers					2,800	38		
Tomcod					100	4	100	3
Whitebait			300	22	100	10	100	9
Total	415,097,100	2,594,482	20,584,100	136,829	519,200	7,701	2,187,400	102,759
SHELLFISH								
Squid							200	12
Grand total	415,097,100	2,594,482	20,584,100	136,829	519,200	7,701	2,187,600	102,771

Species	Lines				Fyke nets		Dip nets	
	Set and hand		Troll					
FISH	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Carp					23,900	$1,084		
Catfish	26,200	$3,025			276,700	31,412		
Cod	4,731,400	80,671						
Flounders:								
"California halibut"	500	78	200	$35				
"Sole"	1,800	88						
Other	600	19						
Grayfish	46,100	297						
Hardhead					33,400	3,641		
"Lingcod"	211,100	9,195	1,000	48				
Mackerel	200	8	200	12				
Rockfishes	369,100	21,306	100	5				
Sablefish	1,000	30						
Salmon			1,208,200	89,175				
Sculpin	2,900	68						
Smelt							4,300	$255
Splittail					5,800	315		
Squawfish					400	19		
Suckers					5,100	181		
Tuna, albacore			700	55				
Whitebait							8,200	580
Other fish	200	6						
Total	5,391,100	114,791	1,210,400	89,330	345,300	36,652	12,500	835
SHELLFISH								
Octopus	3,700	234						
Grand total	5,394,800	115,025	1,210,400	89,330	345,300	36,652	12,500	835

Fisheries of the San Francisco district of California, 1937—Continued

CATCH: BY GEAR—Continued

Species	Bag nets		Paranzella nets		Beam trawls		Traps	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
FISH								
Flounders:								
"California halibut"			8,200	$1,225				
"Sole"			4,401,100	258,647				
Other			1,120,700	39,665	14,200	$426		
Grayfish			338,900	1,703				
Hake			59,200	592				
Herring					300	3		
Kingfish			1,400	70				
"Lingcod"			187,300	8,428				
Rockfishes			323,700	18,257				
Sablefish			19,800	593				
Skates			330,000	6,600				
Tomcod			300	9	600	19		
Other fish			80,100	1,201				
Total			6,870,700	336,990	15,100	448		
SHELLFISH								
Crabs			44,000	5,045			1,374,500	$157,487
Shrimp	694,900	$10,052			413,800	6,208		
Squid			300	18				
Total	694,900	10,052	44,300	5,063	413,800	6,208	1,374,500	157,487
Grand total	694,900	10,052	6,915,000	342,053	428,900	6,656	1,374,500	157,487

Species	Harpoons		Rakes and tongs		Shovels	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
SHELLFISH						
Clams:						
Hard					1,600	$426
Soft					29,700	7,891
Oysters, market:						
Eastern			66,100	$22,781		
Japanese			90,700	13,602		
Native			5,300	1,768		
Total			162,100	38,151	31,300	8,317
WHALE PRODUCTS						
Whale meat	624,900	$12,207				
Whale oil	513,200	29,016				
Total	1,138,100	41,223				
Grand total	1,138,100	41,223	162,100	38,151	31,300	8,317

Fisheries of the Monterey district of California, 1937

OPERATING UNITS: BY GEAR

Item	Purse seines			Lampara and ring nets			Gill nets		
	Mackerel	Sardine	Tuna	Mackerel	Sardine	Other	Set, "California halibut"	Set, crab	Drift, sea bass
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	22	564	126	12	138	39			
On boats and shore					133	76	24	14	15
Total	22	564	126	12	271	115	24	14	15
Vessels, motor:									
5 to 10 tons				1	10	5			
11 to 20 tons					1				
21 to 30 tons		1							
31 to 40 tons		2			1				
41 to 50 tons	1	9	2						
51 to 60 tons		19	4						
61 to 70 tons	1	9	3						
71 to 80 tons		9	2						
81 to 90 tons		1							
Total	2	50	11	1	12	5			
Net tonnage	112	2,908	659	9	120	31			
Boats:									
Motor					12	12	13	10	12
Other							1		
Accessory boats	2	50	11	1	24	17			
Apparatus:									
Number	2	50	11	1	24	17	14	10	12
Length, yards	1,200	18,385	6,352	440	6,487	3,230			
Square yards							33,796	33,600	24,000

Item	Gill nets—Contd.	Lines		Otter trawls	Traps, octopus	Rakes and tongs, other than for oysters	Shovels	Abalone outfits	Total, exclusive of duplication
	Other	Set and hand	Troll						
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels			40	16				58	729
On boats and shore	35	208	250	10	4	4	26	11	458
Total	35	208	290	26	4	4	26	69	1,187
Vessels, motor:									
5 to 10 tons			13	3				11	19
11 to 20 tons			1					1	1
21 to 30 tons									1
31 to 40 tons			1						2
41 to 50 tons				1					9
51 to 60 tons									19
61 to 70 tons									9
71 to 80 tons									9
81 to 90 tons									1
Total			15	4				12	70
Net tonnage			148	70				93	3,055
Boats:									
Motor	15	150	196	3	3	4	7	2	209
Other	8	14					6		24
Accessory boats									61
Apparatus:									
Number	33	766	1,500	7	100	4	26	14	
Square yards	43,915								
Yards at mouth				78					
Hooks		80,268	3,846						

Fisheries of the Monterey district of California, 1937—Continued

CATCH: BY GEAR

Species	Purse seines		Lampara and ring nets		Gill nets	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
FISH						
Anchovies	10,000	$200	34,200	$654	-----	-----
Flounders:						
"California halibut"	-----	-----	400	48	8,900	$984
"Sole"	-----	-----	400	20	8,400	420
Other	-----	-----	-----	-----	5,300	167
Grayfish	12,800	131	5,000	51	10,400	106
Herring	-----	-----	3,600	54	700	11
Horse mackerel	700	48	37,600	2,561	3,700	251
Kingfish	-----	-----	57,700	2,252	68,000	2,653
"Lingcod"	-----	-----	-----	-----	1,500	86
Mackerel	322,500	3,225	1,095,700	16,743	300	12
Perch	-----	-----	24,100	1,074	11,500	512
Pilchard or sardines	259,041,500	1,566,217	20,139,600	128,025	13,200	132
Pompano	-----	-----	100	47	-----	-----
Rockfishes	1,400	56	-----	-----	3,300	130
Sablefish	-----	-----	-----	-----	100	2
Sculpin	-----	-----	-----	-----	500	6
Sea bass:						
Black	-----	-----	-----	-----	100	5
White	400	42	2,300	242	25,400	2,675
Skates	-----	-----	100	2	4,800	95
Smelt	-----	-----	11,100	582	70,600	3,754
Tuna and tunalike fishes, bonito	-----	-----	200	10	100	5
Whitebait	-----	-----	1,600	167	-----	-----
Other fish	-----	-----	-----	-----	100	3
Total	259,389,300	1,569,919	21,413,700	152,532	236,900	12,009
SHELLFISH						
Crabs	-----	-----	-----	-----	12,100	1,040
Squid	-----	-----	464,700	14,142	-----	-----
Total	-----	-----	464,700	14,142	12,100	1,040
Grand total	259,389,300	1,569,919	21,878,400	166,674	249,000	13,049

Species	Lines				Otter trawls and paranzella nets [1]	
	Set and hand		Troll			
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
FISH						
Flounders:						
"California halibut"	900	$102	200	$22	8,600	$948
"Sole"	12,800	640	-----	-----	203,400	9,705
Other	12,800	642	-----	-----	34,400	1,313
Grayfish	19,700	201	200	2	79,700	814
Hake	-----	-----	-----	-----	1,200	12
Horse mackerel	200	14	-----	-----	-----	-----
Kingfish	4,200	164	-----	-----	4,900	191
"Lingcod"	112,600	6,489	600	34	2,800	161
Mackerel	600,900	24,036	-----	-----	100	4
Perch	1,900	85	-----	-----	2,400	107
Rockfishes	2,096,400	84,928	500	20	26,300	1,430
Sablefish	4,100	91	-----	-----	-----	-----
Salmon	-----	-----	891,100	79,328	-----	-----
Sculpin	3,900	52	-----	-----	-----	-----
Sea bass, white	100	10	-----	-----	-----	-----
Skates	1,000	20	-----	-----	15,500	307
Smelt	10,200	529	-----	-----	-----	-----
Tuna, albacore	-----	-----	582,700	50,985	-----	-----
Other fish	200	5	-----	-----	2,300	52
Total	2,881,900	118,008	1,475,300	130,391	381,600	15,044
SHELLFISH						
Crabs	-----	-----	-----	-----	200	16
Octopus	8,500	685	-----	-----	400	33
Total	8,500	685	-----	-----	600	49
Grand total	2,890,400	118,693	1,475,300	130,391	382,200	15,093

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[1] The catch by paranzella nets was made by fishermen from the San Francisco district.

Fisheries of the Monterey district of California, 1937—Continued

CATCH: BY GEAR—Continued

Species	Traps		Rakes and tongs		Shovels		Abalone outfits	
SHELLFISH	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Shrimp	3,000	$655						
Abalone							286,600	$63,261
Clams, Pismo					3,500	$866		
Mussels			200	$17				
Octopus	10,300	869						
Total	13,300	1,524	200	17	3,500	866	286,600	63,261

Fisheries of the San Pedro district of California, 1937

OPERATING UNITS: BY GEAR

Item	Purse seines			Lampara and ring nets			Gill nets		
	Mackerel	Sardine	Tuna	Mackerel	Sardine	Other	Drift, barracuda	Set, sea bass	Other
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	132	1,175	927	651	867	94	3	3	10
On boats and shore					10	24	12	27	25
Total	132	1,175	927	651	877	118	15	30	35
Vessels, motor:									
5 to 10 tons					4	3	1	1	3
11 to 20 tons	1	1		7	14	2			1
21 to 30 tons	8	24	13	18	20				
31 to 40 tons	1	21	14	18	22	3			
41 to 50 tons	2	8	6	6	8				
51 to 60 tons		31	31	6.	8				
61 to 70 tons		14	11	1					
71 to 80 tons		7	6						
81 to 90 tons		1	1						
91 to 100 tons			1						
171 to 180 tons			1						
Total vessels	12	107	84	56	76	8	1	1	4
Total net tonnage	348	5,005	4,353	1,877	2,315	157	6	6	38
Boats:									
Motor					1	5	4	11	12
Other								1	5
Accessory boats	12	107	84	56	77	13			
Apparatus:									
Number	12	107	84	56	77	13	5	13	21
Length, yards	5,537	41,457	49,783	28,438	37,768	6,162			
Square yards							45,000	41,600	18,700

Fisheries of the San Pedro district of California, 1937—Continued

OPERATING UNITS: BY GEAR—Continued

Item	Trammel nets	Lines		Paranzella nets	Traps, sea crawfish	Harpoons, swordfish	Shovels	Abalone outfits	Total, exclusive of duplication
		Set and hand	Troll						
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	11	475	17	9	13	18	-----	5	2,336
On boats and shore	50	596	368	24	176	105	63	30	838
Total	61	1,071	385	33	189	123	63	35	3,174
Vessels, motor:									
5 to 10 tons	3	32	7	1	3	5	-----	1	45
11 to 20 tons	-----	17	-----	1	2	1	-----	-----	23
21 to 30 tons	1	5	1	-----	-----	-----	-----	-----	43
31 to 40 tons	-----	-----	-----	-----	-----	-----	-----	-----	35
41 to 50 tons	-----	1	-----	-----	-----	-----	-----	-----	16
51 to 60 tons	-----	-----	-----	-----	-----	-----	-----	-----	39
61 to 70 tons	-----	1	-----	-----	-----	-----	-----	-----	15
71 to 80 tons	-----	-----	-----	-----	-----	-----	-----	-----	7
81 to 90 tons	-----	-----	-----	-----	-----	-----	-----	-----	1
91 to 100 tons	-----	2	-----	-----	-----	-----	-----	-----	3
111 to 120 tons	-----	4	-----	-----	-----	-----	-----	-----	4
121 to 130 tons	-----	1	-----	-----	-----	-----	-----	-----	1
131 to 140 tons	-----	1	-----	-----	-----	-----	-----	-----	1
141 to 150 tons	-----	1	-----	-----	-----	-----	-----	-----	1
161 to 170 tons	-----	1	-----	-----	-----	-----	-----	-----	1
171 to 180 tons	-----	-----	-----	-----	-----	-----	-----	-----	1
181 to 190 tons	-----	1	-----	-----	-----	-----	-----	-----	1
201 to 210 tons	-----	2	-----	-----	-----	-----	-----	-----	2
361 to 370 tons	-----	1	-----	-----	-----	-----	-----	-----	1
Total vessels	4	70	8	2	5	6	-----	1	240
Total net tonnage	43	2,898	76	26	58	43	-----	9	9,950
Boats:									
Motor	18	322	261	6	99	46	2	9	432
Other	-----	16	-----	-----	23	-----	13	-----	45
Accessory boats	-----	79	-----	-----	-----	-----	-----	-----	232
Apparatus:									
Number	22	1,946	1,580	4	4,940	52	63	10	-----
Square yards	93,432	-----	-----	-----	-----	-----	-----	-----	-----
Yards at mouth	-----	-----	-----	67	-----	-----	-----	-----	-----
Hooks	-----	288,041	1,612	-----	-----	-----	-----	-----	-----

CATCH OFF CALIFORNIA: BY GEAR

Species	Purse seines		Lampara and ring nets		Gill nets		Trammel nets	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
FISH								
Anchovies	-----	-----	79,900	$854	-----	-----	-----	-----
Barracuda	131,100	$7,065	221,500	11,936	36,600	$1,972	-----	-----
Flounders:								
"California halibut"	-----	-----	600	53	100	9	403,000	$35,598
"Sole"	-----	-----	400	12	-----	-----	1,200	36
Flyingfish	-----	-----	200	9	41,700	1,825	-----	-----
Grayfish	1,100	37	4,200	142	31,500	1,063	78,800	2,660
Horse mackerel	1,652,500	15,735	4,746,900	45,199	900	9	-----	-----
Kingfish	-----	-----	440,900	8,856	3,000	60	-----	-----
Mackerel	7,858,700	82,516	38,705,400	406,407	12,700	141	-----	-----
Mullet	-----	-----	-----	-----	3,000	294	-----	-----
Perch	900	58	47,500	3,050	8,200	527	-----	-----
Pilchard or sardines	177,856,500	970,249	169,603,300	932,946	1,300	13	-----	-----
Pompano	-----	-----	4,200	2,082	500	248	-----	-----
Rock bass	-----	-----	400	28	4,500	319	3,300	234
Rockfishes	-----	-----	400	17	100	4	1,900	82
Butterfishes	-----	-----	34,500	1,719	300	15	-----	-----
Sculpin	-----	-----	100	8	-----	-----	100	8
Sea bass:								
Black	200	10	300	15	900	46	1,500	76
White	14,200	1,626	20,200	2,313	88,500	10,020	1,500	172
Sheepshead	-----	-----	-----	-----	200	7	3,600	132
Skates	-----	-----	-----	-----	-----	-----	11,400	144
Smelt	300	12	220,300	8,976	22,900	933	-----	-----
Swordfish	200	28	-----	-----	-----	-----	-----	-----

Fisheries of the San Pedro district of California, 1937—Continued

CATCH OFF CALIFORNIA: BY GEAR—Continued

Species	Purse seines		Lampara and ring nets		Gill nets		Trammel nets	
FISH	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Tuna and tunalike fishes:								
Albacore	45, 600	$4, 560	39, 000	$3, 900			100	$10
Bluefin	6, 387, 400	366, 179	3, 578, 300	205, 387	100	$6		
Bonito	1, 260, 200	47, 154	2, 848, 900	106, 601	3, 100	116	900	34
Skipjack or striped tuna	1, 600	80	900	45				
Yellowfin	64, 700	4, 031	7, 600	473				
Whitefish							100	6
Yellowtail	81, 800	4, 224	23. 600	1, 219	100	5		
Other fish	100	4	1, 400	52	500	19	300	11
Total	195, 357, 100	1, 503, 568	220, 630, 900	1, 742, 299	260, 700	17, 651	507, 700	39, 203
SHELLFISH								
Sea crawfish or spiny lobster							5, 200	972
Squid	200	7	36, 200	1, 201				
Total	200	7	36, 200	1, 201			5, 200	972
Grand total	195, 357, 300	1, 503, 575	220, 667, 100	1, 743, 500	260, 700	17, 651	512, 900	40, 175

Species	Lines				Paranzella nets		Traps	
	Set and hand		Troll					
FISH	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Barracuda	356, 900	$19, 232	672, 300	$36, 229				
Flounders:								
"California halibut"	38, 800	3, 427	100	9	209, 500	$18,506		
"Sole"	2, 400	72			296, 200	8, 831		
Other	8, 200	1, 300			100	8		
Grayfish	185, 700	6, 270	1, 000	34	3, 200	108		
Hake	2, 300	56						
Horse mackerel	500	5						
Kingfish	60, 800	1. 222			100	2	100	$2
"Lingcod"	1, 800	98						
Mackerel	8, 927, 100	98, 719	1, 300	15				
Marlin	2, 600	107						
Perch	3, 600	231					1, 200	77
Rock bass	79, 200	5, 613	300	21			29, 400	2, 084
Rockfishes	707, 900	30, 594			1, 100	48	800	35
Rudderfishes	600	30						
Sablefish	137, 300	6, 412						
Salmon			900	38				
Sculpin	124, 700	10, 012					3, 500	281
Sea bass:								
Black	14, 000	716			200	10		
White	13, 800	1, 695						
Sheepshead	13, 700	502					52, 700	1, 930
Skates	4, 300	54			41, 400	524		
Smelt	5, 500	224						
Tuna and tunalike fishes:								
Albacore	626, 000	62, 650	399, 300	39, 962				
Bluefin	4, 800	276	7, 500	430				
Bonito	52, 400	1, 961	139, 900	5, 235				
Skipjack or striped tuna	570, 300	28, 516	2, 600	130				
Yellowfin	74, 800	4. 661	8, 400	523				
Whitefish	23, 600	1, 312					2, 400	134
Yellowtail	13, 900	718	5, 600	289				
Other fish	5, 200	195	200	7			2, 200	82
Total	12, 062, 700	286, 880	1, 239, 400	82, 922	551, 800	28, 037	92, 300	4, 625
SHELLFISH								
Crabs							1, 600	48
Sea crawfish or spiny lobster							304, 400	56, 904
Octopus	300	33					100	11
Total	300	33					306, 100	56, 963
Grand total	12, 063, 000	286, 913	1, 239, 400	82, 922	551, 800	28, 037	398, 400	61, 588

Fisheries of the San Pedro district of California—Continued

CATCH OFF CALIFORNIA: BY GEAR—Continued

Species	Harpoons		Shovels		Abalone outfits	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
FISH						
Marlin	1, 000	$41	------	------	------	------
Swordfish	398, 100	56, 544	------	------	------	------
Total	399, 100	56, 585	------	------	------	------
SHELLFISH						
Abalone	------	------	------	------	286, 000	$29, 393
Clams:						
Hard	------	------	6, 700	$1, 746	------	------
Pismo	------	------	52, 500	9, 967	------	------
Total	------	------	59, 200	11, 713	286, 000	29, 393
Grand total	399, 100	56, 585	59, 200	11, 713	286, 000	29, 393

CATCH OFF LATIN AMERICA: BY GEAR

Species	Purse seines		Gill nets		Trammel nets		Lines, set and hand		Traps	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
FISH										
Barracuda	357, 300	$26, 031	------	------	------	------	96, 100	$7, 001	------	------
Cabrillo	------	------	------	------	------	------	59, 700	3, 359	------	------
Flounders, "California halibut"	------	------	------	------	26, 800	$2, 412	1, 000	90	------	------
Grayfish	------	------	------	------	800	33	1, 200	50	------	------
Groupers	------	------	------	------	------	------	4, 500	300	------	------
Horse mackerel	------	------	------	------	------	------	500	29	------	------
Marlin	------	------	------	------	------	------	500	34	------	------
Rock bass	------	------	------	------	------	------	19, 400	1, 271	------	------
Sea bass:										
Black	200	12	1, 000	$58	------	------	455, 600	26, 657	------	------
White	100	9	8, 600	800	200	19	2, 500	232	------	------
Sheepshead	------	------	------	------	100	4	1, 200	52	------	------
Spanish mackerel	------	------	------	------	------	------	19, 000	1, 077	------	------
Tuna and tunalike fishes:										
Bluefin	1, 316, 000	73, 542	------	------	------	------	700	49	------	------
Bonito	786, 400	29, 485	------	------	------	------	79, 200	2, 969	------	------
Skipjack or striped tuna	6, 402, 200	318, 938	------	------	------	------	8, 606, 500	428, 759	------	------
Yellowfin	8, 542, 800	508, 672	------	------	------	------	17, 418, 700	1, 037, 180	------	------
Whitefish	------	------	------	------	------	------	3, 900	215	------	------
Yellowtail	253, 300	10, 283	------	------	------	------	166, 100	6, 743	------	------
Other fish	------	------	------	------	------	------	1, 400	93	------	------
Total	17, 658, 300	966, 972	9, 600	858	27, 900	2, 468	26, 937, 700	1, 516, 160	------	------
SHELLFISH										
Sea crawfish or spiny lobster	------	------	------	------	------	------	------	------	1, 500	$304
Grand total	17, 658, 300	966, 972	9, 600	858	27, 900	2, 468	26, 937, 700	1, 516, 160	1, 500	304

Fisheries of the San Diego district of California, 1937

OPERATING UNITS: BY GEAR

Item	Lampara and ring nets			Gill nets		
	Mackerel	Sardine	Other	Drift, barracuda	Set, sea bass	Other
	Number	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:						
On vessels	100	174	20		3	
On boats and shore		29		14	24	7
Total	100	203	20	14	27	7
Vessels, motor:						
5 to 10 tons	7	11	1		1	
11 to 20 tons	2	4				
21 to 30 tons			1			
Total	9	15	2		1	
Net tonnage	77	129	29		5	
Boats:						
Motor		3		5	8	3
Other						1
Accessory boats	9	18	2			
Apparatus:						
Number	9	18	2	5	9	4
Length, yards	3, 150	4, 421	1, 000			
Square yards				15, 000	43, 942	6, 080

Item	Trammel nets	Lines		Traps, sea craw-fish	Har-poons, sword-fish	Total, exclusive of, duplication
		Set and hand	Troll			
	Number	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:						
On vessels	3	974	13		23	1, 059
On boats and shore	25	163	118	34	27	249
Total	28	1, 137	131	34	50	1, 308
Vessels, motor:						
5 to 10 tons	1	24	5		3	30
11 to 20 tons		16			3	16
21 to 30 tons		5				5
31 to 40 tons		8				8
41 to 50 tons		3				3
51 to 60 tons		2				2
61 to 70 tons		1				1
71 to 80 tons		7				7
81 to 90 tons		4				4
91 to 100 tons		2				2
101 to 110 tons		2				2
111 to 120 tons		5				5
121 to 130 tons		4				4
131 to 140 tons		7				7
141 to 150 tons		2				2
151 to 160 tons		2				2
161 to 170 tons		1				1
171 to 180 tons		1				1
181 to 190 tons		2				2
191 to 200 tons		3				3
291 to 300 tons		1				1
Total	1	102	5		6	108
Net tonnage	5	6, 627	40		67	6, 674
Boats:						
Motor	8	77	81	24	9	121
Other				1		2
Accessory boats		101				106
Apparatus:						
Number	9	1, 289	560	781	15	
Square yards	86, 665					
Hooks		36, 903	560			

Fisheries of the San Diego district of California, 1937—Continued

CATCH OFF CALIFORNIA: BY GEAR

Species	Purse seines		Lampara and ring nets		Gill nets		Trammel nets	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
FISH								
Barracuda	22,100	$930	76,900	$3,234	31,700	$1,333		
Flounders, "California halibut"			200	15			128,300	$9,696
Grayfish					1,700	24	53,000	740
Herring					7,100	61		
Horse mackerel	21,400	208	76,700	744				
Mackerel	102,800	1,079	2,265,700	23,790	5,800	116	200	4
Mullet					5,500	437		
Perch			2,100	36				
Pilchard or sardines	425,100	2,197	8,982,600	46,422				
Pompano			100	17				
Rockfishes			200	10			700	34
Sea bass:								
Black					900	42	400	19
White			43,200	3,530	15,600	1,275	700	57
Smelt			700	35	400	20		
Tuna and tunalike fishes:								
Albacore			2,300	230				
Bluefin	181,800	10,208	587,100	32,968				
Bonito	100,400	3,398	830,100	28,097	600	20	1,800	61
Skipjack or striped tuna	15,600	780	500	25				
Yellowfin	100	6						
Yellowtail	1,600	79	16,400	807	100	5	200	10
Total	870,900	18,885	12,884,800	139,960	69,400	3,333	185,300	10,621

Species	Lines				Traps		Harpoons	
	Set and hand		Troll					
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
FISH								
Barracuda	179,300	$7,543	65,200	$2,742				
Flounders, "California halibut"	3,700	280						
Grayfish	14,700	206	900	13				
Groupers	100	4						
Kingfish	700	19						
Mackerel	921,400	10,652						
Rock bass	75,900	3,506	100	5	37,100	$1,714		
Rockfishes	142,700	6,908						
Rudderfishes	200	5						
Sablefish	200	5						
Sculpin	9,000	539						
Sea bass:								
Black	1,900	88						
White	27,900	2,280	100	8				
Sheepshead	1,200	50			1,700	70		
Skates	1,400	14						
Smelt	1,300	67						
Swordfish							191,600	$23,953
Tuna and tunalike fishes:								
Albacore	132,300	13,250	191,800	19,208				
Bluefin	70,100	3,936	5,000	281				
Bonito	288,400	9,763	180,200	6,099				
Skipjack or striped tuna	1,287,400	64,372	5,200	260				
Yellowfin	29,200	1,792	3,000	180				
Whitefish	6,200	305						
Yellowtail	66,800	3,285	13,400	659				
Other fish	500	12						
Total	3,262,500	128,881	464,900	29,455	38,800	1,784	191,600	23,953
SHELLFISH								
Sea crawfish or spiny lobster					76,300	14,115		
Grand total	3,262,500	128,881	464,900	29,455	115,100	15,899	191,600	23,953

Fisheries of the San Diego district of California, 1937—Continued

CATCH OFF LATIN AMERICA: BY GEAR

Species	Purse seines		Lampara and ring nets		Gill nets		Trammel nets	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
FISH								
Barracuda	89, 200	$4, 586	42, 500	$2, 185	33, 800	$1, 738		
Flounders, "California halibut"							366, 600	$28, 675
Grayfish					1, 900	48	1, 300	32
Groupers					300	15		
Mackerel			34, 900	430	4, 700	58		
Perch			300	13				
Pilchard or sardines			100	1				
Pompano			200	40				
Rock bass					1, 000	43		
Rockfishes					100	5	300	15
Sea bass:								
Black	15, 200	769			5, 100	258	3, 000	152
White			60, 100	5, 183	113, 500	9, 787	700	60
Sheepshead							400	14
Smelt			1, 700	87	400	21		
Tuna and tunalike fishes:								
Bluefin			470, 100	26, 805				
Bonito	5, 700	209	245, 100	8, 984	10, 100	370	1, 100	40
Skipjack or striped tuna	102, 300	5, 115						
Yellowfin	631, 100	37, 866						
Yellowtail	14, 100	548	79, 300	3, 081	3, 900	152		
Total	857, 600	49, 093	934, 300	46, 809	174, 800	12, 495	373, 400	28, 988
SHELLFISH								
Sea crawfish or spiny lobster							200	20
Grand total	857, 600	49, 093	934, 300	46, 809	174, 800	12, 495	373, 600	29, 008

Species	Lines				Traps		Harpoons	
	Set and hand		Troll					
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
FISH								
Barracuda	469, 400	$24, 136	51, 100	$2, 627				
Cabrilla	71, 500	3, 559						
Flounders, "California halibut"	300	22						
Grayfish	1, 600	40						
Groupers	53, 000	2, 567						
"Lingcod"	100	3						
Mackerel	64, 700	797						
Perch	100	4						
Rock bass	73, 700	3, 186						
Rockfishes	159, 100	7, 794						
Rudderfishes	500	14						
Sculpin	200	9						
Sea bass:								
Black	213, 700	10, 816						
White	150, 900	13, 013	200	17				
Sheepshead	6, 300	226			300	$11		
Smelt	100	5						
Spanish mackerel	7, 700	274						
Swordfish							35, 400	$4, 481
Tuna and tunalike fishes:								
Bluefin	84, 400	4, 812	600	34				
Bonito	867, 900	31, 811	105, 300	3, 860				
Skipjack or striped tuna	30, 109, 000	1, 471, 503						
Yellowfin	64, 742, 100	3, 862, 435						
Whitefish	20, 900	1, 060						
Yellowtail	4, 612, 100	179, 175	18, 700	726				
Total	101, 709, 300	5, 617, 261	175, 900	7, 264	300	11	35, 400	4, 481
SHELLFISH								
Sea crawfish or spiny lobster					934, 800	91, 344		
Grand total	101, 709, 300	5, 617, 261	175, 900	7, 264	935, 100	91, 355	35, 400	4, 481

HALIBUT FISHERY OF THE PACIFIC COAST[10]

The halibut fishery of the Pacific coast, which is prosecuted by United States (including Alaska) and Canadian vessels, ranks as one of the foremost fisheries of that section. During 1937 the total catch of halibut by vessels of both nationalities amounted to 48,659,000 pounds, valued at $3,828,000. This is an increase of 1 percent in volume and 6 percent in value, as compared with the catch and its value in 1936. Of the total catch in 1937, 76 percent was taken by United States craft and 24 percent by Canadian craft. Considered according to ports of landing, 43 percent was landed at Seattle, Wash.; 39 percent at Canadian ports; and 18 percent at ports in Alsaka.

Halibut fishery of the Pacific coast, 1937

UNITED STATES OPERATING UNITS: BY FLEET CLASSIFICATION

Item	Washington fleet	Alaska fleet	Total
Regular halibut vessels:	*Number*	*Number*	*Number*
Number	131	113	244
Net tonnage	3, 974	1, 369	5, 343
Crew	1, 033	476	1 509
Skates of lines	4, 052	2, 113	6, 165
Vessels in other fisheries but landing one or more fares of halibut:			
Number	13	42	55
Net tonnage	267	447	714
Crew	73	132	205
Skates of lines	289	534	823
Regular halibut boats:			
Number		33	33
Crew		81	81
Skates of lines		381	381
Boats in other fisheries but landing one or more fares of halibut:			
Number		67	67
Crew		127	127
Skates of lines		510	510

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[10] These statistics are compiled from data collected by the International Fisheries Commission for Washington and British Columbia and by Bureau agents for Alaska. The weights shown represent the poundage of fish landed after evisceration and removal of heads.

Halibut fishery of the Pacific coast, 1937—Continued

CATCH OF ALL SPECIES: BY UNITED STATES VESSELS AND BOATS

Fleet classification	Landed in—						Total	
	Seattle, Wash.		British Columbia		Alaska			
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
WASHINGTON FLEET								
Regular vessels:								
Halibut	20, 068, 011	$1,829,600	2, 504, 885	$199, 214	553, 577	$40, 296	23, 126, 473	$2, 069, 110
Sablefish	2, 799, 738	143, 823	41, 851	1, 476	17, 881	523	2, 859, 470	145, 822
"Lingcod"	845, 039	38, 007			585	6	845, 624	38, 013
Rockfishes	307, 425	15, 926			2, 735	27	310, 160	15, 953
Total	24, 020, 213	2, 027, 356	2, 546, 736	200, 690	574, 778	40, 852	27, 141, 727	2, 268, 898
Other vessels and boats:								
Halibut	447, 232	37, 087			36, 240	2, 404	483, 472	39, 491
Sablefish	3, 303	248					3, 303	248
"Lingcod"	55, 852	1, 952					55, 852	1, 952
Rockfishes	522	20					522	20
Total	506, 909	39, 307			36, 240	2, 404	543, 149	41, 711
ALASKA FLEET								
Regular vessels:								
Halibut	588, 460	52, 314	4, 305, 796	342, 441	5, 876, 870	384, 714	10, 771, 126	779, 469
Sablefish	25, 582	1, 294	393, 015	13, 857	1, 633, 113	44, 066	2, 051, 710	59, 217
"Lingcod"	65, 059	3, 314			590	11	65, 649	3, 325
Rockfishes	34, 654	1, 694			10, 054	139	44, 708	1, 833
Total	713, 755	58, 616	4, 698, 811	356, 298	7, 520, 627	428, 930	12, 933, 193	843, 844
Other vessels and boats:								
Halibut	64, 405	5, 102	210, 633	16, 751	2, 235, 517	130, 307	2, 510, 555	152, 160
Sablefish	323	16			69, 349	1, 785	69, 672	1, 801
"Lingcod"	845	34					845	34
Rockfishes					1, 200	14	1, 200	14
Total	65, 573	5, 152	210, 633	16, 751	2, 306, 066	132, 106	2, 582, 272	154, 009
COMBINED FLEETS								
Regular vessels:								
Halibut	20, 656, 471	1, 881, 914	6, 810, 681	541, 655	6, 430, 447	425, 010	33, 897, 599	2, 848, 579
Sablefish	2, 825, 320	145, 117	434, 866	15, 333	1, 650, 994	44, 589	4, 911, 180	205, 039
"Lingcod"	910, 098	41, 321			1, 175	17	911, 273	41, 338
Rockfishes	342, 079	17, 620			12, 789	166	354, 868	17, 786
Total	24, 733, 968	2, 085, 972	7, 245, 547	556, 988	8, 095, 405	469, 782	40, 074, 920	3, 112, 742
Other vessels and boats:								
Halibut	511, 637	42, 189	210, 633	16, 751	2, 271, 757	132, 711	2, 994, 027	191, 651
Sablefish	3, 626	264			69, 349	1, 785	72, 975	2, 049
"Lingcod"	56, 697	1, 986					56, 697	1, 986
Rockfishes	522	20			1, 200	14	1, 722	34
Total	572, 482	44, 459	210, 633	16, 751	2, 342, 306	134, 510	3, 125, 421	195, 720
All vessels and boats:								
Halibut	21, 168, 108	1, 924, 103	7, 021, 314	558, 406	8, 702, 204	557, 721	36, 891, 626	3, 040, 230
Sablefish	2, 828, 946	145, 381	434, 866	15, 333	1, 720, 343	46, 374	4, 984, 155	207, 088
"Lingcod"	966, 795	43, 307			1, 175	17	967, 970	43, 324
Rockfishes	342, 601	17, 640			13, 989	180	356, 590	17, 820
Grand total	25, 306, 450	2, 130, 431	7, 456, 180	573, 739	10, 437, 711	604, 292	43, 200, 341	3, 308, 462

Halibut fishery of the Pacific coast, 1937—Continued

CATCH OF HALIBUT: BY UNITED STATES AND CANADIAN VESSELS AND BOATS

[Expressed in thousands of pounds and thousands of dollars; that is, 000 omitted]

Fleet classification	Landed in—						Total	
	Seattle, Wash.		British Columbia		Alaska			
	Quantity	*Value*	*Quantity*	*Value*	*Quantity*	*Value*	*Quantity*	*Value*
WASHINGTON FLEET								
Regular halibut vessels	20,068	1,830	2,505	199	554	40	23,127	2,069
Other vessels and boats	447	37			36	3	483	40
Total	20,515	1,867	2,505	199	590	43	23,610	2,109
ALASKA FLEET								
Regular halibut vessels	588	52	4,306	342	5,877	385	10,771	779
Other vessels and boats	64	5	211	17	2,236	130	2,511	152
Total	652	57	4,517	359	8,113	515	13,282	931
COMBINED FLEETS								
Regular halibut vessels	20,656	1,882	6,811	541	6,431	425	33,898	2,848
Other vessels and boats	511	42	211	17	2,272	133	2,994	192
Total	21,167	1,924	7,022	558	8,703	558	36,892	3,040
British Columbia fleet	18	2	11,746	786	3	(1)	11,767	788
Grand total	21,185	1,926	18,768	1,344	8,706	558	48,659	3,828

[1] Less than $500.

NOTE.—In addition to the above, it is estimated that about 1,190,477 pounds of halibut, sablefish, "ling-cod," and rockfish livers, valued at approximately $561,856, were landed by the combined fleets at Pacific coast ports during 1936.

The tabulation does not include landings at ports south of Seattle, Wash., which are normally less than 4 percent of the annual Pacific coast catch.

VESSEL FISHERIES AT SEATTLE, WASH.

A total of 52,320,295 pounds of fishery products, valued at $3,664,057, were handled by Seattle wholesale dealers during 1937, exclusive of quantities received by transporting vessels or by rail from Alaska or Canada. This represents an increase of 5 percent in volume and 13 percent in value as compared with the quantity and value of the products handled during the preceding year. Of the total quantity handled, 25,306,450 pounds, valued at $2,130,431, were landed by fishing vessels—a decrease of 6 percent in volume and 3 percent in value as compared with the previous year. Receipts by wholesale dealers from sources other than Alaska or Canada, or from vessels in the halibut fleet, amounted to 27,013,845 pounds, valued at $1,533,626, which is an increase of 19 percent in volume and 46 percent in value.

Fishery products landed by United States vessels at Seattle, Wash., 1937 [1]

BY FISHING GROUNDS

Fishing grounds	Trips	Halibut				Sablefish		"Lingcod"		Rockfishes		Total	
		No. 1		No. 2									
	Number	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
West of Cape Spencer	455	10, 009, 925	$979, 717	5, 512, 989	$459, 605	72, 875	$3, 140	6, 271	$154	13, 723	$593	15, 615, 783	$1, 443, 209
South of Cape Spencer	742	2, 614, 245	253, 971	3, 030, 949	230, 810	2, 756, 071	142, 241	960, 524	43, 153	328, 878	17, 047	9, 690, 667	687, 222
Total	1, 197	12, 624, 170	1, 233, 688	8, 543, 938	690, 415	2, 828, 946	145, 381	966, 795	43, 307	342, 601	17, 640	25, 306, 450	2, 130, 431

[1] Halibut fleet.

BY MONTHS

Months	Trips	Halibut				Sablefish		"Lingcod"		Rockfishes		Total	
		No. 1		No. 2									
	Number	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
January	16					7, 512	$592	103, 992	$6, 994	67, 702	$4, 144	179, 206	$11, 730
February	27					818	38	148, 224	8, 241	66, 835	3, 898	215, 877	12, 177
March	84	895, 594	$77, 753	455, 199	$31, 017	19, 858	892	48, 170	1, 900	12, 320	561	1, 431, 141	112, 123
April	162	2, 013, 616	175, 503	1, 013, 116	67, 161	19, 813	1, 002	106, 603	4, 851	9, 459	517	3, 162, 607	249, 034
May	167	1, 921, 990	171, 325	1, 428, 607	98, 559	6, 627	261	136, 264	3, 808	16, 536	665	3, 510, 024	274, 618
June	149	1, 808, 180	165, 920	1, 476, 406	117, 518	73, 776	5, 163	77, 278	2, 840	9, 454	484	3, 445, 094	291, 925
July	150	1, 736, 080	168, 127	1, 559, 500	128, 695	132, 214	7, 609	67, 295	2, 772	20, 697	908	3, 515, 786	308, 111
August	89	1, 256, 171	139, 816	873, 772	85, 379	373, 563	17, 414	38, 287	1, 496	27, 192	1, 052	2, 568. 985	245, 157
September	117	1, 343, 719	154, 107	818, 465	75, 813	767, 487	37, 663	54, 927	1, 786	21, 053	666	3, 005, 651	270, 035
October	143	1, 648, 820	181, 137	918, 873	86, 273	936, 933	49, 314	48, 703	1, 751	9, 934	298	3, 563, 263	318, 773
November	66					425, 119	21, 974	46, 633	2, 467	34, 277	1, 770	506, 029	26, 211
December	27					65, 226	3, 459	90, 419	4, 401	47, 142	2, 677	202, 787	10, 537
Total	1, 197	12, 624, 170	1, 233, 688	8, 543, 938	690, 415	2, 828, 946	145, 381	966, 795	43, 307	342, 601	17, 640	25, 306, 450	2, 130, 431

NOTE.—The statistics in this table are compiled from reports collected by the Bureau of Fisheries and the International Fisheries Commission.

Fishery products received by Seattle wholesale dealers, 1937; by months [1]

Species	January		February		March		April		May		June	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Cod	58, 882	$1, 384	101, 834	$3, 045	147, 557	$3, 276	51, 614	$929	18, 992	$393	1, 891	$55
Flounders:												
"Sole"	183, 954	5, 390	163, 901	4, 737	212, 297	7, 664	256, 407	7, 051	340, 713	8, 279	478, 888	10, 152
Other	75, 868	1, 441	108, 764	2, 827	53, 817	1, 189	11, 195	224	4, 551	69	2, 535	45
Halibut					1, 312	201	2, 688	174	33, 623	1, 917	63, 673	4, 081
Herring	6, 190	125	64, 786	1, 166	391, 650	2, 962						
"Lingcod"	20, 735	460	36, 032	1, 117	63, 355	1, 730	55, 093	1, 107	169, 587	2, 713	80, 174	1, 267
Perch	5, 767	204	11, 327	467	14, 705	603	22, 379	768	9, 183	359	1, 416	48
Rockfishes	8, 665	250	13, 549	448	23, 784	523	18, 248	449	9, 599	319	6, 883	256
Sablefish											2, 501	75
Salmon:												
Blueback, red or sockeye											54	4
Chinook or king			302	40	112, 339	16, 579	318, 676	36, 903	221, 017	23, 671	798, 635	75, 951
Silver or coho							69	4	4, 072	322	173, 374	12, 309
Smelt	22, 247	1, 506	24, 837	1, 411	27, 884	1, 104	968	74	10, 321	960	13, 919	1, 282
Crabs	191, 091	14, 465	89, 638	7, 001	171, 404	12, 855	123, 832	11, 888	143, 964	13, 245	163, 704	16, 174
Shrimp							20, 335	2, 419	5, 345	738	353	49
Clams, hard, in shell (meats)	21, 672	1, 732	33, 910	2, 712	57, 492	4, 565	53, 773	4, 248	250	18		
Scallops, bay (meats)	1, 530	363	1, 918	441	2, 086	490	1, 656	389	1, 791	435	1, 558	366
Octopus	3, 051	95	4, 735	136	7, 513	225	4, 503	135	4, 412	181	3, 414	137
Squid	1, 655	116									900	36
Total	601, 307	27, 531	655, 533	25, 548	1, 287, 195	53, 966	941, 436	66, 762	977, 420	53, 619	1, 793, 872	122, 287

See footnotes at end of table.

Fishery products received by Seattle wholesale dealers, 1937; by months—Continued

Species	July		August		September		October		November		December		Total	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Cod	5, 942	$154	8, 337	$106	17, 121	$274	15, 503	$319	52, 212	$1, 138	65, 011	$1, 749	544, 896	$12, 822
Flounders:														
"Sole"	404, 985	8, 411	339, 528	7, 334	428, 989	10, 596	272, 183	6, 968	76, 181	2, 369	189, 756	6, 983	3, 347, 782	85, 934
Other	238	3	552	8	101	2	990	15	10, 599	247	169, 801	4, 279	439, 011	10, 349
Halibut	50, 059	3, 409	10, 193	675	819	67	259	26					162, 626	10, 550
Herring							360	7			1, 045	21	464, 031	4, 281
"Lingcod"	103, 965	2, 443	194, 355	4, 315	192, 566	4, 737	72, 948	1, 590	41, 467	1, 004	38, 800	1, 299	1, 069, 077	23, 782
Perch	772	31	2, 384	81	4, 916	167	8, 703	303	6, 306	223	11, 703	380	99, 561	3, 634
Rockfishes	12, 357	219	12, 218	333	21, 268	564	16, 707	373	4, 711	123	14, 221	465	162, 210	4, 322
Sablefish	76, 643	2, 399	83, 882	2, 340	6, 109	153	7, 574	183	13, 304	466			190, 013	5, 616
Salmon:														
Blueback, red or sockeye	13, 508	1, 234	62, 039	6, 167	20, 036	1, 843	70	6					95, 707	9, 254
Chinook or king	1, 341, 683	114, 607	1, 600, 269	161, 147	1, 040, 379	100, 709	449, 798	40, 752	137, 111	8, 943	291	32	6, 020, 500	579, 334
Chum or keta			497	16	13, 775	441	2, 478, 965	82, 302	3, 516, 837	113, 242	817	29	6, 010, 891	196, 030
Humpback or pink	183, 557	4, 304	417, 302	13, 354	678, 647	22, 395	2, 280	60					1, 281, 786	40, 113
Silver or coho	481, 003	33, 090	803, 009	60, 306	1, 043, 509	81, 185	1, 910, 573	139, 853	201, 374	15, 486	2, 075	166	4, 619, 058	342, 721
Smelt	17, 664	1, 351	73, 787	4, 132	65, 895	3, 347	58, 811	3, 270	35, 872	2, 581	27, 775	1, 964	379, 980	22, 982
Crabs	102, 628	10, 468	94, 490	9, 657	73, 150	7, 461	190, 334	14, 389	151, 648	10, 934	193, 004	12, 796	[2] 1, 688, 887	141, 333
Shrimp	213	28	1, 361	245	1, 894	321	2, 549	474	1, 678	310	4, 343	777	38, 071	5, 361
Clams, hard, in shell (meats)					43, 504	3, 881	42, 840	3, 836	39, 469	3, 536	40, 019	3, 569	332, 929	28, 097
Scallops, bay (meats)	2, 064	486	2, 008	487	1, 736	422	2, 487	587	1, 579	369	1, 818	466	22, 231	5, 301
Octopus	566	23	340	19	1, 758	102	3, 733	164	3, 627	211	3, 985	203	41, 637	1, 631
Squid											406	27	2, 961	179
Total	2, 797, 847	182, 660	3, 706, 551	270, 722	3, 656, 172	238, 667	5, 537, 667	295, 477	4, 293, 975	161, 182	764, 870	35, 205	27, 013, 845	1, 533, 626

[1] This tabulation does not include fish received from Alaska or Canada or vessels in the halibut fleet.

[2] 78,550 dozen.

NOTE.—The yields of bivalve mollusks have been converted from weights in the shell to weights of meats on the following basis: Hard clams, 25 per cent, and bay scallops 17 percent.

LAKE FISHERIES [11]

In 1937 the yield of the fisheries of the Great Lakes, including those of the international lakes of northern Minnesota, in the United States and Canada amounted to 116,063,700 pounds, representing a decrease of 7 percent as compared with the catch in the preceding year.

Considering the fishery of United States craft only, the catch amounted to 83,958,400 pounds, valued at $6,033,084, which is a decrease of 11 percent in volume and 6 percent in value as compared with the catch in the previous year. These fisheries gave employment to 6,418 fishermen as compared with 5,623 in the previous year.

Lake fisheries of the United States and Canada, 1937

CATCH: BY LAKES

Species	Lake Ontario			Lake Erie		
	United States	Canada	Total	United States	Canada	Total
	Pounds	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*
Blue pike	60,100	26,200	86,300	10,960,800	9,354,700	20,315,500
Bowfin	300	(1)	300	----------	----------	----------
Burbot	35,700	(1)	35,700	369,700	(1)	369,700
Carp	86,200	153,000	239,200	2,153,100	337,900	2,491,000
Catfish and bullheads	68,700	210,800	279,500	804,400	56,700	861,100
Cisco	----------	----------	----------	64,000	99,400	163,400
Eels	10,100	66,000	76,100	----------	----------	----------
Garfish	----------	----------	----------	6,400	(1)	6,400
Goldfish	----------	----------	----------	267,400	(1)	267,400
Lake herring	123,800	1,572,900	1,696,700	----------	----------	----------
Lake trout	12,900	205,000	217,900	2,600	200	2,800
Mooneye	----------	----------	----------	14,900	(1)	14,900
Pike or pickerel (jacks)	9,400	141,400	150,800	3,500	2,800	6,300
Rock bass	7,400	(1)	7,400	3,300	(1)	3,300
Sauger	----------	----------	----------	1,214,300	(1)	1,214,300
Sheepshead	----------	----------	----------	4,059,200	(1)	4,059,200
Sturgeon	12,300	8,000	20,300	5,800	13,300	19,100
Sucker "mullet"	49,400	(1)	49,400	1,103,300	(1)	1,103,300
Sunfish	32,500	(1)	32,500	----------	----------	----------
White bass	----------	----------	----------	435,100	(1)	435,100
Whitefish, common	56,700	551,600	608,300	647,500	1,401,000	2,048,500
Yellow perch	49,000	148,000	197,000	1,750,200	1,691,100	3,441,300
Yellow pike	3,900	21,800	25,700	3,060,000	449,000	3,509,000
Mussel shells	----------	----------	----------	7,100	(1)	7,100
Miscellaneous	----------	271,900	271,900	----------	1,258,100	1,258,100
Total	618,400	3,376,600	3,995,000	26,932,600	14,664,200	41,596,800

[1] Where there has been a Canadian catch of these species it is included under "Miscellaneous."

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[11] The statistics of the catch presented herewith were obtained principally from records of the various State fishery agencies. The data for the operating units (fishermen, vessels, boats, and gear) of the United States were obtained largely by Bureau agents in a special canvass; although State records in several instances were very helpful in this work. In all cases the statistics collected are for the calendar year, except for Lake of the Woods, Rainy Lake, and Lake Namakan in Minnesota, which are for two seasons. For Lake of the Woods, the seasons are from June 1 to November 1 and December 1 to April 1 and for Rainy and Namakan Lakes from May 15 to November 1 and December 1 to April 1. The catches for these two seasons, in the order named, have been combined to constitute a year. The quantity of fish taken in these lakes between January 1 and April 1 is estimated at less than 3 percent of the total catch.

Lake fisheries of the United States and Canada, 1937—Continued

CATCH: BY LAKES—Continued

Species	Lake Huron			Lake Michigan	Lake Superior		
	United States	Canada	Total	United States	United States	Canada	Total
	Pounds	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*
Blue pike	----------	21,000	21,000	----------	----------	5,900	5,900
Bowfin	700	(1)	700	----------	----------	----------	----------
Burbot	800	(1)	800	39,500	1,400	(1)	1,400
Carp	978,100	40,000	1,018,100	1,924,800	200	600	800
Catfish and bullheads	143,500	6,900	150,400	58,600	100	(1)	100
Chubs	190,300	605,100	795,400	5,579,200	275,000	131,100	406,100
Lake herring	4,150,000	229,500	4,379,500	5,499,500	11,784,100	2,247,000	14,031,100
Lake trout	1,340,200	3,901,900	5,242,100	4,987,300	3,084,900	1,698,600	4,783,500
Pike or pickerel (jacks)	13,100	107,400	120,500	14,000	24,100	7,400	31,500
Rock bass	24,900	(1)	24,900	1,500	----------	----------	----------
Sauger	5,800	(1)	5,800	300	100	(1)	100
Sheepshead	4,200	(1)	4,200	5,600	----------	----------	----------
Smelt	----------	----------	----------	1,425,500	----------	----------	----------
Sturgeon	----------	17,300	17,300	----------	----------	1,600	1,600
Sucker "mullet"	1,725,900	(1)	1,725,900	2,381,400	447,100	(1)	447,100
White bass	----------	----------	----------	300	----------	----------	----------
Whitefish:							
Common	1,018,700	1,664,100	2,682,800	1,072,600	363,600	300,800	664,400
Menominee	72,100	(1)	72,100	47,300	18,200	(1)	18,200
Yellow perch	547,600	156,400	704,000	2,489,300	9,000	(1)	9,000
Yellow pike	1,626,700	398,800	2,025,500	78,000	3,500	61,800	65,300
Crawfish	----------	----------	----------	6,400	----------	----------	----------
Mussel shells	52,400	(1)	52,400	787,000	----------	----------	----------
Miscellaneous	----------	426,700	426,700	----------	----------	54,300	54,300
Total	11,895,000	7,575,100	19,470,100	26,398,100	16,011,300	4,509,100	20,520,400

Species	Namakan Lake			Rainy Lake		
	United States	Canada	Total	United States	Canada	Total
	Pounds	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*
Burbot	300	(1)	300	300	(1)	300
Chubs	----------	----------	----------	----------	6,100	6,100
Pike or pickerel (jacks)	2,000	1,500	3,500	28,700	96,200	124,900
Sturgeon	----------	800	800	----------	100	100
Sucker "mullet"	100	(1)	100	1,500	(1)	1,500
Whitefish, common	26,400	10,200	36,600	38,900	90,500	129,400
Yellow perch	----------	----------	----------	2,800	6,800	9,600
Yellow pike	6,700	2,000	8,700	42,400	105,400	147,800
Miscellaneous	----------	100	100	----------	98,000	98,000
Total	35,500	14,600	50,100	114,600	403,100	517,700

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[1] Where there has been a Canadian catch of these species it is included under "Miscellaneous."

Lake fisheries of the United States and Canada, 1937—Continued

CATCH: BY LAKES—Continued

Species	Lake of the Woods			Total, all lakes		
	United States	Canada	Total	United States	Canada	Total
	Pounds	*Pounds*	*Pounds*	*Pounds*	*Pounds*	*Pounds*
Blue pike		1,800	1,800	11,020,900	9,409,600	20,430,500
Bowfin				1,000	(1)	1,000
Burbot	46,800	(1)	46,800	494,500	(1)	494,500
Carp	17,500	2,300	19,800	5,159,900	533,800	5,693,700
Catfish and bullheads	44,200	33,700	77,900	1,119,500	308,100	1,427,600
Chubs				6,044,500	742,300	6,786,800
Cisco				64,000	99,400	163,400
Crappie	200	(1)	200	200	(1)	200
Eels				10,100	66,000	76,100
Garfish				6,400	(1)	6,400
Goldfish				267,400	(1)	267,400
Lake herring				21,557,400	4,049,400	25,606,800
Lake trout		8,100	8,100	9,427,900	5,813,800	15,241,700
Mooneye				14,900	(1)	14,900
Pike or pickerel (jacks)	163,400	430,900	594,300	258,200	787,600	1,045,800
Rock bass				37,100	(1)	37,100
Sauger	415,000	16,800	431,800	1,635,500	16,800	1,652,300
Sheepshead				4,069,000	(1)	4,069,000
Smelt				1,425,500	(1)	1,425,500
Sturgeon		200	200	18,100	41,300	59,400
Sucker "mullet"	183,600	900	184,500	5,892,300	900	5,893,200
Sunfish				32,500	(1)	32,500
Tullibees	223,300	96,200	319,500	223,300	96,200	319,500
White bass				435,400	(1)	435,400
Whitefish:						
Common	3,800	154,600	158,400	3,228,200	4,172,800	7,401,000
Menominee				137,600	(1)	137,600
Yellow perch	218,700	28,000	246,700	5,066,600	2,030,300	7,096,900
Yellow pike	636,400	633,500	1,269,900	5,457,600	1,672,300	7,129,900
Crawfish				6,400	(1)	6,400
Mussel shells				846,500	(1)	846,500
Miscellaneous		155,600	155,600		2,264,700	2,264,700
Total	1,952,900	1,562,600	3,515,500	83,958,400	32,105,300	116,063,700

[1] Where there has been a Canadian catch of these species it is included under "Miscellaneous."

Lake fisheries of the United States, 1937

OPERATING UNITS: BY LAKES

Item	Lake Ontario	Lake Erie	Lake Huron	Lake Michigan	Lake Superior	Lake of the Woods, Rainy Lake, and Namakan Lake	Total
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	16	270	137	1,042	197		1,662
On boats and shore:							
Regular	35	732	665	790	770	131	3,123
Casual	107	311	129	826	260		1,633
Total	158	1,313	931	2,658	1,227	131	6,418
Vessels:							
Steam:							
5 to 10 tons			1	3			4
11 to 20 tons		3	3	11			17
21 to 30 tons		7	1	5	3		16
31 to 40 tons		4		3	1		8
41 to 50 tons		2		1			3
51 to 60 tons				1			1
Total		16	5	24	4		49
Net tonnage		433	81	523	109		1,146

Lake fisheries of the United States, 1937—Continued

OPERATING UNITS: BY LAKES—Continued

Item	Lake Ontario	Lake Erie	Lake Huron	Lake Michigan	Lake Superior	Lake of the Woods, Rainy Lake, and Namakan Lake	Total
Vessels—Continued.							
Motor:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
5 to 10 tons	3	19	15	158	45		240
11 to 20 tons	1	13	8	112	10		144
21 to 30 tons		1	4	27	4		36
31 to 40 tons		2	3	3	2		10
41 to 50 tons				1			1
51 to 60 tons			1	1			2
Total	4	35	31	302	61		433
Net tonnage	42	409	467	3, 656	626		5, 200
Total vessels	4	51	36	326	65		482
Total net tonnage	42	842	548	4, 179	735		6, 346
Boats:							
Motor	46	288	246	493	468	96	1, 637
Other	48	315	127	550	339	29	1, 408
Accessory boats				3	6		9
Apparatus:							
Haul seines	6	128	55	58	12		259
Length, yards	483	63, 928	27, 173	21, 034	1, 553		114, 171
Gill nets:							
"Shoal," 2⅛ to 3⅞ inches	1, 720	15, 771	2, 775	60, 059	10, 381		90, 706
Square yards	231, 064	1, 991, 744	544, 900	13. 288, 670	2, 361, 396		18, 417, 774
"Shoal," 4 to 7 inches	468	10, 026	5, 618	45, 537	10, 164	264	72, 077
Square yards	83, 200	2, 069, 838	1, 477, 400	10, 560, 032	3, 330, 868	79, 712	17, 601, 050
"Shoal," 10 to 14 inches	26	20					46
Square yards	15, 730	9, 328					25, 058
Bar nets		113					113
Square yards		4, 649					4, 649
Trammel nets				2			2
Square yards				350			350
Lines:							
Troll					60		60
Hooks					400		400
Trot	37	39	577	1, 232	3, 250		5, 135
Hooks	13, 225	14, 760	171, 000	357, 475	666, 110		1, 222, 570
Pound nets		41	418	621	183	69	1, 332
Trap nets	150	5, 346	2, 903	447	74		8, 920
Fyke nets	140	667	192	1, 682	21	98	2, 800
Crawfish pots				850			850
Crowfoot bars		4	3	151			158
Picks			7	30			37

OPERATING UNITS: BY STATES AND LAKES

Item	New York			Pennsylvania—Lake Erie	Ohio—Lake Erie
	Lake Ontario	Lake Erie	Total		
Fishermen:					
On vessels	*Number* 16	*Number* 44	*Number* 60	*Number* 123	*Number* 103
On boats and shore:					
Regular	35	16	51	31	614
Casual	107	62	169	9	187
Total	158	122	280	163	904
Vessels:					
Steam:					
11 to 20 tons				3	
21 to 30 tons		1	1	6	
31 to 40 tons		1	1		3
41 to 50 tons					2
Total		2	2	9	5
Net tonnage		56	56	185	192

Lake fisheries of the United States, 1937—Continued

OPERATING UNITS: BY STATES AND LAKES—Continued

Item	New York			Pennsylvania—Lake Erie	Ohio—Lake Erie
	Lake Ontario	Lake Erie	Total		
Vessels—Continued.					
Motor:	*Number*	*Number*	*Number*	*Number*	*Number*
5 to 10 tons	3	6	9	7	6
11 to 20 tons	1	1	2	4	8
21 to 30 tons				1	
31 to 40 tons				1	1
Total	4	7	11	13	15
Net tonnage	42	53	95	161	195
Total vessels	4	9	13	22	20
Total net tonnage	42	109	151	346	387
Boats:					
Motor	46	15	61	8	245
Other	48	28	76	1	244
Apparatus:					
Haul seines	6	6	12		91
Length, yards	483	516	999		54, 561
Gill nets:					
"Shoal," 2⅛ to 3⅞ inches	1, 720	1, 669	3, 389	7, 167	6, 732
Square yards	231, 064	278, 210	509, 274	921, 228	771, 806
"Shoal," 4 to 7 inches	468	2, 532	3, 000	5, 637	1, 716
Square yards	83, 200	550, 882	634, 082	1, 215, 718	288, 738
"Shoal," 10 to 14 inches	26	8	34		12
Square yards	15, 730	2, 128	17, 858		7, 200
Bar nets					113
Square yards					4, 649
Lines, Trot	37	20	57		
Hooks	13, 225	10, 000	23, 225		
Pound nets				41	
Trap nets	150	16	166		5, 145
Fyke nets	140		140		388

Item	Michigan					Indiana—Lake Michigan
	Lake Erie	Lake Huron	Lake Michigan	Lake Superior	Total	
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels		137	378	109	624	24
On boats and shore:						
Regular	71	665	371	315	1, 422	10
Casual	53	129	327	142	651	1
Total	124	931	1, 076	566	2, 697	35
Vessels:						
Steam:						
5 to 10 tons		1	2		3	
11 to 20 tons		3	6		9	
21 to 30 tons		1	1	3	5	1
31 to 40 tons				1	1	
Total		5	9	4	18	1
Net tonnage		81	124	109	314	22
Motor:						
5 to 10 tons		15	53	13	81	2
11 to 20 tons		8	34	7	49	3
21 to 30 tons		4	9	3	16	1
31 to 40 tons		3		2	5	
51 to 60 tons		1			1	
Total		31	96	25	152	6
Net tonnage		467	1, 104	343	1, 914	86
Total vessels		36	105	29	170	7
Total net tonnage		548	1, 228	452	2, 228	108

Lake fisheries of the United States, 1937—Continued

OPERATING UNITS: BY STATES AND LAKES—Continued

Item	Michigan					Indiana—Lake Michigan
	Lake Erie	Lake Huron	Lake Michigan	Lake Superior	Total	
	Number	*Number*	*Number*	*Number*	*Number*	*Number*
Boats:						
Motor	20	246	221	212	699	4
Other	42	127	167	66	402	3
Apparatus:						
Haul seines	31	55	1	12	99	----------
Length, yards	8, 851	27, 173	65	1, 553	37, 642	----------
Gill nets:						
"Shoal," 2⅛ to 3⅞ inches	203	2, 775	14, 895	4, 316	22, 189	992
Square yards	20, 500	544, 900	2, 750, 870	757, 695	4, 073, 965	198, 400
"Shoal," 4 to 7 inches	141	5, 618	20, 513	5, 711	31, 983	676
Square yards	14, 500	1, 477, 400	4, 577, 872	1, 887, 588	7, 957, 360	135, 200
Lines:						
Troll	----------	----------	----------	60	60	----------
Hooks	----------	----------	----------	400	400	----------
Trot	19	577	485	2, 356	3, 437	----------
Hooks	4, 760	171, 000	149, 800	586, 700	912, 260	----------
Pound nets	----------	418	283	90	791	4
Trap nets	185	2, 903	447	74	3, 609	----------
Fyke nets	279	192	96	6	573	----------
Crowfoot bars	4	3	111	----------	118	----------
Picks	----------	7	30	----------	37	----------

Item	Illinois—Lake Michigan	Wisconsin			Minnesota		
		Lake Michigan	Lake Superior	Total	Lake Superior	Lake of the Woods, Rainy Lake, and Namakan Lake	Total
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:							
On vessels	77	563	88	651	----------	----------	----------
On boats and shore:							
Regular	2	407	125	532	330	131	461
Casual	2	496	47	543	71	----------	71
Total	81	1, 466	260	1, 726	401	131	532
Vessels:							
Steam:							
5 to 10 tons	----------	1	----------	1	----------	----------	----------
11 to 20 tons	----------	5	----------	5	----------	----------	----------
21 to 30 tons	----------	3	----------	3	----------	----------	----------
31 to 40 tons	----------	3	----------	3	----------	----------	----------
41 to 50 tons	----------	1	----------	1	----------	----------	----------
51 to 60 tons	----------	1	----------	1	----------	----------	----------
Total	----------	14	----------	14	----------	----------	----------
Net tonnage	----------	377	----------	377	----------	----------	----------
Motor:							
5 to 10 tons	10	93	32	125	----------	----------	----------
11 to 20 tons	9	66	3	69	----------	----------	----------
21 to 30 tons	5	12	1	13	----------	----------	----------
31 to 40 tons	----------	3	----------	3	----------	----------	----------
41 to 50 tons	----------	1	----------	1	----------	----------	----------
51 to 60 tons	----------	1	----------	1	----------	----------	----------
Total	24	176	36	212	----------	----------	----------
Net tonnage	326	2, 140	283	2, 423	----------	----------	----------
Total vessels	24	190	36	226	----------	----------	----------
Total net tonnage	326	2, 517	283	2, 800	----------	----------	----------
Boats:							
Motor	2	266	72	338	184	96	280
Other	----------	280	66	446	207	29	236
Accessory boats	----------	3	1	4	5	----------	5

Lake fisheries of the United States, 1937—Continued

OPERATING UNITS: BY STATES AND LAKES—Continued

Item	Illinois—Lake Michigan	Wisconsin			Minnesota		
		Lake Michigan	Lake Superior	Total	Lake Superior	Lake of the Woods, Rainy Lake, and Namakan Lake	Total
Apparatus:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Haul seines		57		57			
Length, yards		20, 969		20, 969			
Gill nets:							
"Shoal," 2⅛ to 3⅞ inches	2, 840	41, 332	2, 304	43, 636	3, 761		3, 761
Square yards	568, 000	9, 771, 400	518, 928	10, 290, 328	1, 084, 773		1, 084, 773
"Shoal," 4 to 7 inches	1, 725	22, 623	3, 212	25, 835	1, 241	264	1, 505
Square yards	345, 000	5, 501, 960	1, 097, 520	6, 599, 480	345, 760	79, 712	425, 472
Trammel nets		2		2			
Square yards		350		350			
Lines, trot		747	186	933	708		708
Hooks		207, 675	52, 775	260, 450	26, 635		26, 635
Pound nets		334	93	427		69	69
Fyke nets		1, 586	15	1, 601		98	98
Crawfish pots		850		850			
Crowfoot bars		40		40			

OPERATING UNITS OF LAKE ONTARIO: BY GEAR[1]

Item	Haul seines	Gill nets			Lines, trot	Trap nets	Fyke nets	Total, exclusive of duplication
		"Shoal," 2⅛ to 3⅞ inches	"Shoal," 4 to 7 inches	"Shoal," 10 to 14 inches				
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels		16	4					16
On boats and shore:								
Regular		29	23	6	3	14	5	35
Casual	16	15	9	7	38	31	14	107
Total	16	60	36	13	41	45	19	158
Vessels, motor:								
5 to 10 tons		3	1					3
11 to 20 tons		1						1
Total		4	1					4
Net tonnage		42	7					42
Boats:								
Motor	3	21	16	6	11	18	6	46
Other	3	7	3	2	22	10	7	48
Apparatus:								
Number	6	1, 720	468	26	37	150	140	
Length, yards	483							
Square yards		231, 064	83, 200	15, 730				
Hooks					13, 225			

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[1] Includes Niagara River below the Falls and the St. Lawrence River.

Lake fisheries of the United States, 1937—Continued

OPERATING UNITS OF LAKE ERIE: BY GEAR[1]

Item	Haul seines	Gill nets			Bar nets
		"Shoal," 2⅛ to 3⅞ inches	"Shoal," 4 to 7 inches	"Shoal," 10 to 14 inches	
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	---	254	224	5	---
On boats and shore:					
Regular	118	47	41	1	12
Casual	174	42	15	1	7
Total	292	343	280	7	19
Vessels:					
Steam:					
11 to 20 tons	---	3	3	---	---
21 to 30 tons	---	7	7	---	---
31 to 40 tons	---	3	3	---	---
41 to 50 tons	---	2	1	---	---
Total	---	15	14	---	---
Net tonnage	---	401	354	---	---
Motor:					
5 to 10 tons	---	17	17	---	---
11 to 20 tons	---	13	9	1	---
21 to 30 tons	---	1	1	---	---
31 to 40 tons	---	2	1	---	---
Total	---	33	28	1	---
Net tonnage	---	395	304	15	---
Total vessels	---	48	42	1	---
Total net tonnage	---	796	658	15	---
Boats:					
Motor	41	28	14	1	8
Other	135	9	5	---	7
Apparatus:					
Number	128	15,771	10,026	20	113
Length, yards	63,928	---	---	---	---
Square yards	---	1,991,744	2,069,838	9,328	4,649

Item	Lines, trot	Pound nets	Trap nets	Fyke nets	Crowfoot bars	Total, exclusive of duplication
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	---	---	---	---	---	270
On boats and shore:						
Regular	6	18	542	70	---	732
Casual	27	7	46	39	4	311
Total	33	25	588	109	4	1,313
Vessels:						
Steam:						
11 to 20 tons	---	---	---	---	---	3
21 to 30 tons	---	---	---	---	---	7
31 to 40 tons	---	---	---	---	---	4
41 to 50 tons	---	---	---	---	---	2
Total	---	---	---	---	---	16
Net tonnage	---	---	---	---	---	433

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[1] Includes Niagara River above the Falls.

Lake fisheries of the United States, 1937—Continued

OPERATING UNITS OF LAKE ERIE: BY GEAR—Continued

Item	Lines, trot	Pound nets	Trap nets	Fyke nets	Crowfoot bars	Total, exclusive of duplication
Vessels—Continued.						
Motor:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
5 to 10 tons						19
11 to 20 tons						13
21 to 30 tons						1
31 to 40 tons						2
Total						35
Net tonnage						409
Total vessels						51
Total net tonnage						842
Boats:						
Motor	4	5	201	29	1	288
Other	26		125	55	3	315
Apparatus:						
Number	39	41	5,346	667	4	
Hooks	14,760					

OPERATING UNITS OF LAKE HURON: BY GEAR

Item	Haul seines	Gill nets "Shoal," 2⅛ to 3⅞ inches	Gill nets "Shoal," 4 to 7 inches	Lines, trot	Pound nets	Trap nets	Fyke nets	Crowfoot bars	Picks	By hand	Total, exclusive of duplication
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:											
On vessels		48	77	58	8	33					137
On boats and shore:											
Regular	78	95	120	26	192	501	38				665
Casual	33	30	30	7	14	39	4	9	3	11	129
Total	111	173	227	91	214	573	42	9	3	11	931
Vessels:											
Steam:											
5 to 10 tons		1	1								1
11 to 20 tons		1	3	1							3
21 to 30 tons		1		1							1
Total		3	4	2							5
Net tonnage		53	55	41							81
Motor:											
5 to 10 tons		3	9	3	1	6					15
11 to 20 tons		2	5	3	1	3					8
21 to 30 tons		2	2	2							4
31 to 40 tons		1		3		1					3
51 to 60 tons			1								1
Total		8	17	11	2	10					31
Net tonnage		143	224	225	18	107					467
Total vessels		11	21	13	2	10					36
Total net tonnage		196	279	266	18	107					548
Boats:											
Motor	32	48	39	10	75	168	12	2	1		246
Other	14	30	21	8	15	67	6	1	3	7	127
Apparatus:											
Number	55	2,775	5,618	577	418	2,903	192	3	7		
Length, yards	27,173										
Square yards		544,900	1,477,400								
Hooks				171,000							

Lake fisheries of the United States, 1937—Continued

OPERATING UNITS OF LAKE MICHIGAN: BY GEAR

Item	Haul seines	Gill nets		Trammel nets	Lines, trot	Pound nets	Trap nets
		"Shoal" 2⅛ to 3⅞ inches	"Shoal" 4 to 7 inches				
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	4	869	734		177	54	15
On boats and shore:							
Regular	71	490	335		35	287	116
Casual	49	364	252	2	20	89	13
Total	124	1,723	1,321	2	232	430	144
Vessels:							
Steam:							
5 to 10 tons		3	1				
11 to 20 tons		11	5		2	1	1
21 to 30 tons		3	3		1		
31 to 40 tons		2	2		1		
41 to 50 tons		1					
51 to 60 tons		1	1				
Total		21	12		4	1	1
Net tonnage		429	282		94	15	13
Motor:							
5 to 10 tons	2	137	97		17	18	1
11 to 20 tons		93	85		25		2
21 to 30 tons		22	24		5	1	
31 to 40 tons		3	2				
41 to 50 tons		1					
51 to 60 tons			1		1		
Total	2	256	209		48	19	3
Net tonnage	16	3,020	2,659		695	138	33
Total vessels	2	277	221		52	20	4
Total net tonnage	16	3,449	2,941		789	153	46
Boats:							
Motor	24	246	143		22	129	37
Other	62	220	118	2	18	112	26
Accessory boats	2	1					
Apparatus:							
Number	58	60,059	45,537	2	1,232	621	447
Length, yards	21,034						
Square yards		13,288,670	10,560,032	350			
Hooks					357,475		

Item	Fyke nets	Dip nets	Crawfish pots	Crow-foot bars	Picks	By hand	Total, exclusive of duplication
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	31						1,042
On boats and shore:							
Regular	182						790
Casual	47	2	5	136	30	25	826
Total	260	2	5	136	30	25	2,658
Vessels:							
Steam:							
5 to 10 tons							3
11 to 20 tons							11
21 to 30 tons							5
31 to 40 tons							3
41 to 50 tons							1
51 to 60 tons							1
Total							24
Net tonnage							523
Motor:							
5 to 10 tons	11						158
11 to 20 tons	1						112
21 to 30 tons							27

Lake fisheries of the United States, 1937—Continued

OPERATING UNITS OF LAKE MICHIGAN: BY GEAR—Continued

Item	Fyke nets	Dip nets	Crawfish pots	Crow-foot bars	Picks	By hand	Total, exclusive of duplication
Vessels—Continued.							
Motor—Continued.	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
31 to 40 tons							3
41 to 50 tons							1
51 to 60 tons							1
Total	12						302
Net tonnage	95						3, 656
Total vessels	12						326
Total net tonnage	95						4, 179
Boats:							
Motor	83		5	81	6		493
Other	120		3	50	13	22	550
Accessory boats							3
Apparatus, number	1, 682	1	850	151	30		

OPERATING UNITS OF LAKE SUPERIOR: BY GEAR

Item	Haul seines	Gill nets		Lines		Pound nets	Trap nets	Fyke nets	Total, exclusive of duplication
		"Shoal," 2⅛ to 3⅞ inches	"Shoal," 4 to 7 inches	Troll	Trot				
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Fishermen:									
On vessels		114	136		103	13	3		197
On boats and shore:									
Regular	22	613	395	16	273	79	24	11	770
Casual	10	198	128	14	60	14	7	3	260
Total	32	925	659	30	436	106	34	14	1, 227
Vessels:									
Steam:									
21 to 30 tons		1	3		1	1			3
31 to 40 tons			1		1				1
Total		1	4		2	1			4
Net tonnage		24	109		56	24			109
Motor:									
5 to 10 tons		31	33		16	4	1		45
11 to 20 tons		6	3		8				10
21 to 30 tons		2	4		3				4
31 to 40 tons			2		1				2
Total		39	42		28	4	1		61
Net tonnage		347	436		336	23	9		626
Total vessels		40	46		30	5	1		65
Total net tonnage		371	545		392	47	9		735
Boats:									
Motor	7	364	259	8	173	34	9	4	468
Other	6	290	103		41	18	3	6	339
Accessory boats		5			1			1	6
Apparatus:									
Number	12	10, 381	10, 164	60	3, 250	183	74	21	
Length, yards	1, 553								
Square yards		2, 361, 396	3, 330, 868						
Hooks				400	666, 110				

Lake fisheries of the United States, 1937—Continued

OPERATING UNITS OF LAKE OF THE WOODS, RAINY LAKE, AND NAMAKAN LAKE: BY GEAR

Item	Gill nets, "shoal," 4 to 7 inches	Pound nets	Fyke nets	Total, exclusive of duplication
	Number	*Number*	*Number*	*Number*
Fishermen, on boats and shore, regular	91	35	32	131
Boats:				
Motor	77	19	8	96
Other	14	20	12	29
Apparatus:				
Number	264	69	98	
Square yards	79, 712			

CATCH: BY GEAR

Species	New York							
	Haul seines		Gill nets		Trot lines		Trap nets	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Blue pike			1, 695, 200	$112, 314			2, 700	$274
Bowfin							300	11
Burbot			7, 500	390			26, 100	1, 222
Carp	98. 800	$4, 467	2, 300	100			11, 200	396
Catfish and bullheads	1, 200	117	1, 300	121			42, 900	3, 302
Cisco			5, 800	612				
Eels							10, 100	505
Garfish	6, 400	32						
Lake herring			108, 200	12, 951			15, 600	2, 109
Lake trout	7, 000	700	4, 800	613			3, 500	459
Pike or pickerel (jacks)	100	4	200	18			7, 700	591
Rock bass			100	1			7, 400	100
Sauger			600	30				
Sheepshead							200	8
Sturgeon			1, 600	640	13, 500	$4, 628	300	108
Sucker "mullet"	7, 200	409	10, 600	276			32, 500	981
Sunfish							30, 400	655
White bass			300	12				
Whitefish, common			110, 400	21, 357			40, 500	6, 238
Yellow perch	100	5	54, 700	4, 660			22, 900	891
Yellow pike			700	99			8, 800	1, 128
Total	120, 800	5, 734	2, 004, 300	154, 194	13, 500	4, 628	263, 100	18, 978

Species	New York—Continued				Pennsylvania	
	Fyke Nets		Total		Gill nets	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Blue pike			1, 697, 900	$112, 588	2, 164, 100	$118, 802
Bowfin			300	11		
Burbot	2, 100	$81	35, 700	1, 693	10, 000	67
Carp	2, 700	81	115, 000	5, 044		
Catfish and bullheads	24, 400	2, 098	69, 800	5, 638	1, 500	75
Cisco			5, 800	612	52, 100	5, 230
Eels			10, 100	505		
Garfish			6, 400	32		
Lake herring			123, 800	15, 060		
Lake trout			15, 300	1, 772	200	28
Pike or pickerel (jacks)	1, 400	86	9, 400	699		
Rock bass			7, 500	101		
Sauger			600	30		
Sheepshead			200	8	3, 600	47
Sturgeon			15, 400	5, 376	100	31
Sucker "mullet"	12, 000	553	62, 300	2, 219	3, 900	60
Sunfish	2, 100	54	32, 500	709		
White bass			300	12	4, 600	201
Whitefish, common			150, 900	27, 595	375, 800	82, 171
Yellow perch	4, 900	193	82, 600	5, 749	83, 400	5, 254
Yellow pike			9, 500	1, 227	200	23
Total	49, 600	3, 146	2, 451, 300	186, 680	2, 699, 500	211, 989

Lake fisheries of the United States, 1937—Continued

CATCH: BY GEAR—Continued

Species	Pennsylvania—Continued				Ohio			
	Pound nets		Total		Haul seines		Gill nets	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Blue pike	139, 400	$7, 670	2, 303, 500	$126, 472	100	$8	993, 000	$57, 591
Burbot	2, 000	14	12, 000	81	300	3	1, 200	12
Carp	3, 200	57	3, 200	57	1, 196, 300	20, 337	11, 300	193
Catfish and bullheads	2, 800	139	4, 300	214	247, 300	16, 076	1, 500	98
Cisco	4, 600	468	56, 700	5, 698			900	92
Goldfish					247, 700	4, 954		
Lake trout			200	28				
Mooneye					7, 300	138		
Sauger					3, 800	223	374, 200	21, 701
Sheepshead	20, 300	281	23, 900	328	649, 700	10, 395	7, 600	121
Sturgeon	300	80	400	111				
Sucker "mullet"	5, 200	78	9, 100	138	36, 700	624	25, 000	426
White bass	25, 200	1, 114	29, 800	1, 315	32, 200	1, 352	2, 900	123
Whitefish, common	53, 600	11, 695	429, 400	93, 866			24, 400	4, 877
Yellow perch	21, 400	1, 364	104, 800	6, 618	900	58	970, 100	61, 119
Yellow pike	29, 500	3, 902	29, 700	3, 925	11, 100	888	59, 000	4, 720
Total	307, 500	26, 862	3, 007, 000	238, 851	2, 433, 400	55, 056	2, 471, 100	151, 073

Species	Ohio—Continued							
	Bar nets		Trap nets		Fyke nets		Total	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Blue pike			5, 974, 700	$346, 533	51, 700	$2, 999	7, 019, 500	$407, 131
Burbot			355, 700	3, 557	300	3	357, 500	3, 575
Carp	110, 500	$1, 879	181, 900	3, 092	43, 700	742	1, 543, 700	26, 243
Catfish and bullheads	100	6	462, 000	30, 030	44, 100	2, 870	755, 000	49, 080
Cisco			600	60			1, 500	152
Goldfish	2, 700	54	7, 900	158	2, 900	58	261, 200	5, 224
Mooneye			7, 100	135	500	9	14, 900	282
Sauger			768, 700	44, 585	25, 500	1, 479	1, 172, 200	67, 988
Sheepshead	300	5	3, 119, 100	49, 906	183, 400	2, 934	3, 960, 100	63, 361
Sturgeon			2, 300	686			2, 300	686
Sucker "mullet"			888, 000	15, 096	61, 600	1, 047	1, 011, 300	17, 193
White bass			285, 600	11, 995	58, 300	2, 449	379, 000	15, 919
Whitefish, common			98, 600	19, 720	200	40	123, 200	24, 637
Yellow perch			618, 000	38, 934	6, 800	428	1, 595, 800	100, 539
Yellow pike			2, 695, 000	215, 690	125, 100	10, 008	2, 890, 200	231, 306
Total	113, 600	1, 944	15, 465, 200	780, 177	604, 100	25, 066	21, 087, 400	1, 013, 316

Species	Michigan							
	Haul seines		Gill nets		Lines			
					Troll		Trot	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Bowfin	100	$2						
Burbot	100	2	5, 200	$102			400	$7
Carp	1, 115, 000	33, 449	14, 100	423			400	12
Catfish and bullheads	50, 700	2, 953	400	26			3, 900	253
Chubs			1, 301, 800	195, 269				
Lake herring	45, 700	1, 370	4, 646, 200	139, 385				
Lake trout			4, 034, 100	605, 108	38, 500	$5, 779	1, 521, 500	228, 216
Pike or pickerel (jacks)	400	35	1, 200	98				
Rock bass	6, 500	261	100	4				
Sauger	200	14	1, 200	69				
Sheepshead	10, 600	212	100	2			2, 500	50
Smelt			50, 000	1, 500				
Sucker "mullet"	141, 000	4, 229	406, 500	12, 195				
White bass	100	10						
Whitefish:								
Common			866, 100	181, 892				
Menominee			94, 800	8, 533				
Yellow perch	25, 400	2, 541	529, 800	52, 980			2, 900	291
Yellow pike	85, 100	11, 918	69, 100	9, 674			100	14
Total	1, 480, 900	56, 996	12, 020, 700	1, 207, 260	38, 500	5, 779	1, 531, 700	228, 843

Lake fisheries of the United States, 1937—Continued

CATCH: BY GEAR—Continued

Species	Michigan—Continued					
	Pound nets		Trap nets		Fyke nets	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Bowfin	--------	--------	100	$2	500	$10
Burbot	300	$6	1, 200	24	200	4
Carp	5, 600	168	141, 500	4, 245	303, 100	9, 092
Catfish and bullheads	700	41	86, 300	5, 584	47, 700	1, 690
Chubs	200	30	100	15	--------	--------
Goldfish	--------	--------	--------	--------	6, 200	186
Lake herring	3, 590, 200	107, 705	1, 495, 300	44, 860	11, 600	348
Lake trout	139, 600	20, 949	158, 600	23, 692	2, 400	356
Pike or pickerel (jacks)	1, 700	136	17, 200	1, 378	11, 000	878
Rock bass	1, 700	68	11, 700	467	9, 600	386
Sauger	200	12	5, 000	303	41, 100	2, 466
Sheepshead	3, 100	62	10, 400	208	57, 700	1, 154
Smelt	142, 500	4, 275	1, 600	48	--------	--------
Sucker "mullet"	113, 100	3, 391	2, 912, 900	87, 388	326, 300	9, 800
White bass	--------	--------	--------	--------	25, 900	2, 590
Whitefish:						
Common	469, 500	98, 606	884, 100	185, 660	4, 100	863
Menominee	5, 200	468	19, 300	1, 737	--------	--------
Yellow perch	20, 900	2, 092	449, 300	44, 925	106, 200	10, 623
Yellow pike	70, 100	9, 820	1, 411, 900	197, 661	206, 400	28, 891
Total	4, 564, 600	247, 829	7, 606, 500	598, 197	1, 160, 000	69, 337

Species	Michigan—Continued							
	Crowfoot bars		Picks		By hand		Total	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Bowfin	--------	--------	--------	--------	--------	--------	700	$14
Burbot	--------	--------	--------	--------	--------	--------	7, 400	145
Carp	--------	--------	--------	--------	--------	--------	1, 579, 700	47, 389
Catfish and bullheads	--------	--------	--------	--------	--------	--------	189, 700	10, 547
Chubs	--------	--------	--------	--------	--------	--------	1, 302, 100	195, 314
Goldfish	--------	--------	--------	--------	--------	--------	6, 200	186
Lake herring	--------	--------	--------	--------	--------	--------	9, 789, 000	293, 668
Lake trout	--------	--------	--------	--------	--------	--------	5, 894, 700	884, 100
Pike or pickerel (jacks)	--------	--------	--------	--------	--------	--------	31, 500	2, 525
Rock bass	--------	--------	--------	--------	--------	--------	29, 600	1, 186
Sauger	--------	--------	--------	--------	--------	--------	47, 700	2, 864
Sheepshead	--------	--------	--------	--------	--------	--------	84, 400	1, 688
Smelt	--------	--------	--------	--------	--------	--------	194, 100	5, 823
Sucker "mullet"	--------	--------	--------	--------	--------	--------	3, 899, 800	117, 003
White bass	--------	--------	--------	--------	--------	--------	26, 000	2, 600
Whitefish:								
Common	--------	--------	--------	--------	--------	--------	2, 223, 800	467, 021
Menominee	--------	--------	--------	--------	--------	--------	119, 300	10, 738
Yellow perch	--------	--------	--------	--------	--------	--------	1, 134, 500	113, 452
Yellow pike	--------	--------	--------	--------	--------	--------	1, 842, 700	257, 978
Mussel shells [1]	396, 900	$13, 320	109, 100	$3, 791	75, 500	$2, 731	581, 500	19, 842
Pearls and slugs [1]	--------	389	--------	71	--------	64	--------	524
Total	396, 900	13, 709	109, 100	3, 862	75, 500	2, 795	28, 984, 400	2, 434, 607

Species	Indiana						Illinois	
	Gill nets		Pound nets		Total		Gill nets	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Burbot	15, 000	$300	--------	--------	15, 000	$300	--------	--------
Chubs	270, 000	40, 500	--------	--------	270, 000	40, 500	590, 900	$88, 635
Lake herring	220, 000	6, 600	16, 000	$480	236, 000	7, 080	102, 700	3, 080
Lake trout	100, 000	20, 000	--------	--------	100, 000	20, 000	271, 200	51, 247
Smelt	100	3	--------	--------	100	3	--------	--------
Sucker "mullet"	500	15	2, 000	60	2, 500	75	--------	--------
Whitefish, common	100	25	3, 000	600	3, 100	625	700	150
Yellow perch	150, 000	15, 000	4, 000	400	154, 000	15, 400	496, 100	49, 610
Total	755, 700	82, 443	25, 000	1, 540	780, 700	83, 983	1, 461, 600	192, 722

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[1] From tributary streams.

Lake fisheries of the United States, 1937—Continued

CATCH: BY GEAR—Continued

Species	Wisconsin							
	Haul seines		Gill nets		Trammel nets		Trot lines	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Burbot			15, 000	$291			2, 400	$48
Carp	1, 774, 100	$53, 221	73, 500	2, 206	200	$6		
Catfish and bullheads	8, 600	600	300	13				
Chubs			3, 767, 800	565, 175				
Lake herring			4, 601, 800	137, 956				
Lake trout			1, 912, 100	345, 437			557, 300	111, 110
Pike or pickerel (jacks)			2, 500	198				
Smelt			876, 500	43, 827				
Sucker "mullet"	2, 800	83	408, 700	12, 259	100	3		
Whitefish:								
Common			66, 400	13, 406				
Menominee			11, 800	1, 178				
Yellow perch			368, 900	36, 893			100	10
Total	1, 785, 500	53, 904	12, 105, 300	1, 158, 839	300	9	559, 800	111, 168

Species	Wisconsin—Continued							
	Pound nets		Fyke nets		Crawfish pots		Crowfoot bars	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Burbot	1, 200	$24	900	$18				
Carp	2, 200	64	50, 800	1, 523				
Catfish and bullheads	4, 400	145	43, 200	1, 342				
Chubs	57, 500	8, 622						
Lake herring	1, 077, 600	32, 326	3, 800	114				
Lake trout	323, 300	64, 418						
Pike or pickerel (jacks),	19, 200	1, 556	1, 200	94				
Sheepshead	300	6	100	2				
Smelt	338, 800	17, 079	16, 000	804				
Sucker "mullet"	84, 700	2, 538	222, 800	6, 682				
White bass			300	30				
Whitefish:								
Common	155, 000	31, 089						
Menominee	1, 900	190						
Yellow perch	40, 200	4, 031	868, 100	86, 801				
Crawfish					6, 400	$642		
Mussel shells [1]							238, 300	$5, 018
Total	2, 106, 300	162, 088	1, 207, 200	97, 410	6, 400	642	238, 300	5, 018

Species	Wisconsin—Continued				Minnesota	
	By hand		Total		Gill nets	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Burbot			19, 500	$381	7, 600	$112
Carp			1, 900, 800	57, 020	3, 700	181
Catfish and bullheads			56, 500	2, 100	1, 700	109
Chubs			3, 825, 300	573, 797	56, 200	4, 790
Lake herring			5, 683, 200	170, 396	5, 622, 700	131, 970
Lake trout			2, 792, 700	520, 965	257, 800	31, 829
Pike or pickerel (jacks)			22, 900	1, 848	114, 600	4, 030
Sauger					309, 600	11, 517
Sheepshead			400	8		
Smelt			1, 231, 300	61, 710		
Sucker "mullet"			719, 100	21, 565	87, 000	1, 142
Tullibees					185, 200	3, 883
White bass			300	30		
Whitefish						
Common			221, 400	44, 495	53, 000	6, 274
Menominee			13, 700	1, 368	4, 600	460
Yellow perch			1, 277, 300	127, 735	174, 400	10, 638
Yellow pike					383, 000	25, 626
Crawfish			6, 400	642		
Mussel shells [1]	26, 700	$573	265, 000	5, 591		
Total	26, 700	573	18, 035, 800	1, 589, 651	7, 261, 100	232, 561

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[1] From tributary streams.

Lake fisheries of the United States, 1937—Continued

CATCH: BY GEAR—Continued

Species	Minnesota—Continued							
	Trot lines		Pound nets		Fyke nets		Total	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Burbot			39,000	$593	800	$23	47,400	$728
Carp			12,100	197	1,700	23	17,500	401
Catfish and bullheads			2,600	281	39,900	2,656	44,200	3,046
Chubs							56,200	4,790
Crappie			100	12	100	15	200	27
Lake herring							5,622,700	131,970
Lake trout	96,000	$10,760					353,800	42,589
Pike or pickerel (jacks)			57,900	2,214	21,900	759	194,400	7,003
Sauger			77,700	3,380	27,700	1,310	415,000	16,207
Sucker "mullet"			58,100	764	43,100	576	188,200	2,482
Tullibees			25,500	290	12,600	498	223,300	4,671
Whitefish:								
Common			22,500	3,343	200	21	75,700	9,638
Menominee							4,600	460
Yellow perch			19,400	1,103	27,700	1,742	221,500	13,483
Yellow pike			253,000	25,809	49,500	4,344	685,500	55,779
Total	96,000	10,760	567,900	37,986	225,200	11,967	8,150,200	293,274

CATCH: BY LAKES

Species	Lake Ontario		Lake Erie			
	New York		New York		Pennsylvania	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Blue pike	60,100	$4,610	1,637,800	$107,978	2,303,500	$126,472
Bowfin	300	11				
Burbot	35,700	1,693			12,000	81
Carp	86,200	3,376	28,800	1,668	3,200	57
Catfish and bullheads	68,700	5,541	1,100	97	4,300	214
Cisco			5,800	612	56,700	5,698
Eels	10,100	505				
Garfish			6,400	32		
Lake herring	123,800	15,060				
Lake trout	12,900	1,532	2,400	240	200	28
Pike or pickerel (jacks)	9,400	699				
Rock bass	7,400	100	100	1		
Sauger			600	30		
Sheepshead			200	8	23,900	328
Sturgeon	12,300	4,348	3,100	1,028	400	111
Sucker "mullet"	49,400	1,581	12,900	638	9,100	138
Sunfish	32,500	709				
White bass			300	12	29,800	1,315
Whitefish, common	56,700	8,880	94,200	18,715	429,400	93,866
Yellow perch	49,000	3,192	33,600	2,557	104,800	6,618
Yellow pike	3,900	559	5,600	668	29,700	3,925
Total	618,400	52,396	1,832,900	134,284	3,007,000	238,851

Lake fisheries of the United States, 1937—Continued

CATCH: BY LAKES—Continued

Species	Lake Erie—Continued					
	Ohio		Michigan		Total	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Blue pike	7,019,500	$407,131			10,960,800	$641,581
Burbot	357,500	3,575	200	$4	369,700	3,660
Carp	1,543,700	26,243	577,400	17,322	2,153,100	45,290
Catfish and bullheads	755,000	49,080	44,000	1,753	804,400	51,144
Cisco	1,500	152			64,000	6,462
Garfish					6,400	32
Goldfish	261,200	5,224	6,200	186	267,400	5,410
Lake trout					2,600	268
Mooneye	14,900	282			14,900	282
Pike or pickerel (jacks)			3,500	280	3,500	280
Rock bass			3,200	128	3,300	129
Sauger	1,172,200	67,988	41,500	2,490	1,214,300	70,508
Sheepshead	3,960,100	63,361	75,000	1,500	4,059,200	65,197
Sturgeon	2,300	686			5,800	1,825
Sucker "mullet"	1,011,300	17,193	70,000	2,100	1,103,300	20,069
White bass	379,000	15,919	26,000	2,600	435,100	19,846
Whitefish, common	123,200	24,637	700	147	647,500	137,365
Yellow perch	1,595,800	100,539	16,000	1,600	1,750,200	111,314
Yellow pike	2,890,200	231,306	134,500	18,830	3,060,000	254,729
Mussel shells [1]			7,100	229	7,100	229
Pearls and slugs [1]				28		28
Total	21,087,400	1,013,316	1,005,300	49,197	26,932,600	1,435,648

Species	Lake Huron		Lake Michigan			
	Michigan		Michigan		Indiana	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Bowfin	700	$14				
Burbot	800	15	5,800	$116	15,000	$300
Carp	978,100	29,341	24,200	726		
Catfish and bullheads	143,500	8,712	2,200	82		
Chubs	190,300	28,545	1,050,300	157,545	270,000	40,500
Lake herring	4,150,000	124,498	2,468,700	74,061	236,000	7,080
Lake trout	1,340,200	201,015	2,263,300	339,495	100,000	20,000
Pike or pickerel (jacks)	13,100	1,053	13,900	1,112		
Rock bass	24,900	998	1,500	60		
Sauger	5,800	350	300	18		
Sheepshead	4,200	84	5,200	104		
Smelt			194,100	5,823	100	3
Sucker "mullet"	1,725,900	51,777	1,725,600	51,777	2,500	75
Whitefish:						
Common	1,018,700	213,923	946,500	198,765	3,100	625
Menominee	72,100	6,490	37,000	3,330		
Yellow perch	547,600	54,764	563,000	56,300	154,000	15,400
Yellow pike	1,626,700	227,737	78,000	10,920		
Mussel shells [1]	52,400	1,737	522,000	17,876		
Pearls and slugs [1]		63		433		
Total	11,895,000	951,116	9,901,600	918,543	780,700	83,983

[1] From tributary streams.

Lake fisheries of the United States, 1937—Continued

CATCH: By lakes—Continued

Species	Lake Michigan—Continued					
	Illinois		Wisconsin		Total	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Burbot			18,700	$365	39,500	$781
Carp			1,900,600	57,014	1,924,800	57,740
Catfish and bullheads			56,400	2,093	58,600	2,175
Chubs	590,900	$88,635	3,668,000	550,189	5,579,200	836,869
Lake herring	102,700	3,080	2,692,100	80,767	5,499,500	164,988
Lake trout	271,200	51,247	2,352,800	435,569	4,987,300	846,311
Pike or pickerel (jacks)			100	8	14,000	1,120
Rock bass					1,500	60
Sauger					300	18
Sheepshead			400	8	5,600	112
Smelt			1,231,300	61,710	1,425,500	67,536
Sucker "mullet"			653,300	19,594	2,381,400	71,446
White bass			300	30	300	30
Whitefish:						
Common	700	150	122,300	25,284	1,072,600	224,824
Menominee			10,300	1,028	47,300	4,358
Yellow perch	496,100	49,610	1,276,200	127,621	2,489,300	248,931
Yellow pike					78,000	10,920
Crawfish			6,400	642	6,400	642
Mussel shells [1]			265,000	5,591	787,000	23,467
Pearls and slugs [1]						433
Total	1,461,600	192,722	14,254,200	1,367,513	26,398,100	2,562,761

Species	Lake Superior					
	Michigan		Wisconsin		Minnesota	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Burbot	600	$10	800	$16		
Carp			200	6		
Catfish and bullheads			100	7		
Chubs	61,500	9,224	157,300	23,608	56,200	$4,790
Lake herring	3,170,300	95,109	2,991,100	89,629	5,622,700	131,970
Lake trout	2,291,200	343,590	439,900	85,396	353,800	42,589
Pike or pickerel (jacks)	1,000	80	22,800	1,840	300	21
Sauger	100	6				
Sucker "mullet"	378,300	11,349	65,800	1,971	3,000	90
Whitefish:						
Common	257,900	54,186	99,100	19,211	6,600	1,050
Menominee	10,200	918	3,400	340	4,600	460
Yellow perch	7,900	788	1,100	114		
Yellow pike	3,500	491				
Total	6,182,500	515,751	3,781,600	222,138	6,047,200	180,970

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[1] From tributary streams.

Lake fisheries of the United States, 1937—Continued

CATCH: BY LAKES—Continued

Species	Lake Superior—Contd.		Lake of the Woods, Rainy Lake, and Namakan Lake		Total, all lakes	
	Total		Minnesota			
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Blue pike	-----	-----	-----	-----	11, 020, 900	$646, 191
Bowfin	-----	-----	-----	-----	1, 000	25
Burbot	1, 400	$26	47, 400	$728	494, 500	6, 903
Carp	200	6	17, 500	401	5, 159, 900	136, 154
Catfish and bullheads	100	7	44, 200	3, 046	1, 119, 500	70, 625
Chubs	275, 000	37, 622	-----	-----	6, 044, 500	903, 036
Cisco	-----	-----	-----	-----	64, 000	6, 462
Crappie	-----	-----	200	27	200	27
Eels	-----	-----	-----	-----	10, 100	505
Garfish	-----	-----	-----	-----	6, 400	32
Goldfish	-----	-----	-----	-----	267, 400	5, 410
Lake herring	11, 784, 100	316, 708	-----	-----	21, 557, 400	621, 254
Lake trout	3, 084, 900	471, 575	-----	-----	9, 427, 900	1, 520, 701
Mooneye	-----	-----	-----	-----	14, 900	282
Pike or pickerel (jacks)	24, 100	1, 941	194, 100	6, 982	258, 200	12, 075
Rock bass	-----	-----	-----	-----	37, 100	1, 287
Sauger	100	6	415, 000	16, 207	1, 635, 500	87, 089
Sheepshead	-----	-----	-----	-----	4, 069, 000	65, 393
Smelt	-----	-----	-----	-----	1, 425, 500	67, 536
Sturgeon	-----	-----	-----	-----	18, 100	6, 173
Sucker "mullet"	447, 100	13, 410	185, 200	2, 392	5, 892, 300	160, 675
Sunfish	-----	-----	-----	-----	32, 500	709
Tullibees	-----	-----	223, 300	4, 671	223, 300	4, 671
White bass	-----	-----	-----	-----	435, 400	19, 876
Whitefish:						
Common	363, 600	74, 447	69, 100	8, 588	3, 228, 200	668, 027
Menominee	18, 200	1, 718	-----	-----	137, 600	12, 566
Yellow perch	9, 000	902	221, 500	13, 483	5, 066, 600	432, 586
Yellow pike	3, 500	491	685, 500	55, 779	5, 457, 600	550, 215
Crawfish	-----	-----	-----	-----	6, 400	642
Mussel shells [1]	-----	-----	-----	-----	846, 500	25, 433
Pearls and slugs [1]	-----	-----	-----	-----	-----	524
Total	16, 011, 300	918, 859	2, 103, 000	112, 304	83, 958, 400	6, 033, 084

[1] From tributary streams.

Industries related to the fisheries of the Lake States, 1937

OPERATING UNITS, SALARIES, AND WAGES

Item	New York	Pennsylvania	Ohio	Indiana	Illinois	Michigan	Wisconsin	Minnesota	Total
Transporting:									
Persons engaged:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On vessels	-----	-----	17	-----	-----	6	-----	-----	23
On boats	-----	-----	-----	-----	-----	12	-----	-----	12
Total	-----	-----	17	-----	-----	18	-----	-----	35
Vessels, motor	-----	-----	11	-----	-----	3	-----	-----	14
Net tonnage	-----	-----	143	-----	-----	21	-----	-----	164
Boats	-----	-----	-----	-----	-----	4	-----	-----	4
Wholesale and manufacturing:									
Establishments	20	7	52	3	45	49	41	13	230
Persons engaged:									
Proprietors	23	6	46	3	17	37	30	5	167
Salaried employees	32	7	77	2	166	71	59	31	445
Wage earners:									
Average for season	132	63	281	5	602	465	581	137	2, 266
Average for year	95	43	213	5	481	171	211	58	1, 277
Paid to salaried employees	$42, 993	$13, 127	$181, 249	$1, 920	$429, 420	$141, 712	$99, 075	$40, 118	$949, 614
Paid to wage earners	$106, 246	$48, 650	$303, 174	$6, 200	$668, 639	$211, 306	$223, 853	$77, 232	$1,645,300
Total salaries and wages	$149, 239	$61, 777	$484. 423	$8, 120	$1,098,059	$353, 018	$322, 928	$117, 350	$2,594,914
Fishermen manufacturing	-----	-----	13	-----	28	28	36	118	223

Industries related to the fisheries of the Lake States, 1937—Continued

PRODUCTS MANUFACTURED

Item	New York		Pennsylvania		Ohio		Indiana	
By manufacturing establishments:	*Quantity*	*Value*	*Quantity*	*Value*	*Quantity*	*Value*	*Quantity*	*Value*
Alewives, spiced------pounds--	---------	--------	---------	-------	(1)	(1)	---------	-------
Blue pike:								
Fresh fillets----------do----	594, 656	$136, 127	189, 033	$32, 336	1, 211, 392	$278, 356	---------	-------
Frozen fillets---------do----	72, 200	17, 510	80, 910	13, 096	300, 606	74, 777	---------	-------
Chubs, cisco, and tullibees, smoked------------pounds--	(1)	(1)	---------	-------	(1)	(1)	72, 000	$18, 100
Eels, smoked------------do----	(1)	(1)	---------	-------	---------	--------	---------	-------
Herring, lake, smoked--do----	---------	--------	---------	-------	(1)	(1)	---------	-------
Herring, sea, spiced-----do----	(1)	(1)	---------	-------	---------	--------	---------	-------
Lake trout, smoked-----do----	---------	--------	---------	-------	---------	--------	(1)	(1)
Pickerel, fresh fillets----do----	---------	--------	---------	-------	10, 780	2, 832	---------	-------
Sablefish, smoked-------do----	---------	--------	---------	-------	(1)	(1)	---------	-------
Salmon, smoked--------do----	---------	--------	---------	-------	(1)	(1)	---------	-------
Sauger pike:								
Fresh fillets---------do----	71, 690	16, 025	---------	-------	211, 111	47, 725	---------	-------
Frozen fillets---------do----	61, 125	13, 835	(1)	(1)	119, 804	32, 722	---------	-------
Sheepshead, smoked----do----	---------	--------	---------	-------	16, 000	1, 960	---------	-------
Sturgeon, smoked-------do----	(1)	(1)	---------	-------	---------	--------	---------	-------
White bass, fresh fillets--do----	(1)	(1)	(1)	(1)	2, 016	463	---------	-------
Yellow perch:								
Fresh fillets---------do----	35, 843	7, 781	8, 140	1, 295	254, 254	61, 753	---------	-------
Frozen fillets---------do----	---------	--------	(1)	(1)	23, 285	6, 190	---------	-------
Yellow pike:								
Fresh fillets---------do----	29, 419	7, 503	(1)	(1)	35, 673	9, 616	---------	-------
Frozen fillets---------do----	2, 890	648	(1)	(1)	(1)	(1)	---------	-------
Whitefish:								
Fresh fillets---------do----	11, 160	3, 890	1, 725	359	(1)	(1)	---------	-------
Smoked-------------do----	17, 400	5, 764	---------	-------	(1)	(1)	(1)	(1)
Unclassified products:								
Fillets, fresh and frozen pounds--	(2)	(2)	[3] 14, 155	[3] 2, 704	[4] 26, 326	[4] 8, 989	---------	-------
Smoked-------------do----	[5] 192, 400	[5] 42, 637	---------	-------	[6] 84, 820	[6] 22, 453	(2)	(2)
Spiced--------------do----	(2)	(2)	---------	-------	(2)	(2)	---------	-------
Miscellaneous--------do----	[10] 330, 341	[10] 24, 735	---------	-------	[11] 167, 640	[11] 16, 977	[12] 26, 000	[12] 6, 700
Total-------------do----	1, 419, 124	276, 455	293, 963	49, 790	2, 463, 707	564, 813	98, 000	24, 800
By fishermen:								
Blue pike, fresh fillets---do----	---------	--------	---------	-------	600	138	---------	-------
Carp, smoked-----------do----	---------	--------	---------	-------	1, 900	310	---------	-------
Catfish and bullheads, smoked pounds--	---------	--------	---------	-------	1, 150	230	---------	-------
Herring, lake, smoked--do----	---------	--------	---------	-------	1, 500	300	---------	-------
Lake trout, smoked-----do----	---------	--------	---------	-------	2, 900	1, 015	---------	-------
Mooneye, smoked-------do----	---------	--------	---------	-------	2, 950	471	---------	-------
Sauger pike, fresh fillets-do----	---------	--------	---------	-------	2, 700	620	---------	-------
Sheepshead, smoked----do----	---------	--------	---------	-------	6, 200	793	---------	-------
Yellow pike:								
Fresh fillets---------do----	---------	--------	---------	-------	1, 000	230	---------	-------
Smoked-------------do----	---------	--------	---------	-------	1, 900	475	---------	-------
Whitefish, smoked------do----	---------	--------	---------	-------	1, 100	330	---------	-------
White bass, smoked-----do----	---------	--------	---------	-------	1, 400	181	---------	-------
Total----------------do----	---------	--------	---------	-------	25, 300	5, 093	---------	-------
Grand total-----------do----	1, 419, 124	276, 455	293, 963	49, 790	2, 489, 007	569, 906	98, 000	24, 800

See footnotes at end of table.

Industries related to the fisheries of the Lake States, 1937—Continued

PRODUCTS MANUFACTURED—Continued

Item	Illinois		Michigan		Wisconsin		Minnesota	
	Quantity	*Value*	*Quantity*	*Value*	*Quantity*	*Value*	*Quantity*	*Value*
By manufacturing establishments:								
Alewives, spiced...pounds..	1, 080, 000	$88, 500	---------	--------	(1)	(1)	---------	--------
Blue pike:								
Fresh fillets.......do....	525, 448	112, 272	(1)	(1)	56, 500	$13, 275	---------	--------
Frozen fillets......do....	47, 640	9, 724	---------	--------	---------	--------	---------	--------
Chubs, cisco, and tullibees, smoked........pounds....	1, 820, 409	383, 976	430, 200	$116, 800	607, 152	133, 088	24, 500	$5, 540
Eels, smoked.........do....	16, 749	4, 463	---------	--------	---------	--------	---------	--------
Herring, lake:								
Fresh fillets.......do....	(1)	(1)	(1)	(1)	106, 000	7, 700	---------	--------
Salted.............do....	---------	---------	1, 255, 255	48, 557	2, 199, 075	93, 015	764, 000	31, 875
Smoked............do....	(1)	(1)	319, 000	34, 980	586, 000	46, 130	31, 500	2, 940
Herring, sea, spiced...do....	(1)	(1)	---------	--------	116, 109	17, 018	---------	--------
Lake trout, smoked....do....	63, 132	13, 650	171, 750	53, 250	143, 152	36, 550	(1)	(1)
Pickerel, fresh fillets...do....	(1)	(1)	---------	--------	---------	--------	---------	--------
Sablefish, smoked.....do....	13, 587	3, 959	(1)	(1)	33, 000	4, 950	---------	--------
Salmon, smoked.......do....	659, 432	250, 370	277, 800	69, 716	155, 000	30, 470	(1)	(1)
Sauger pike:								
Fresh fillets.......do....	958, 465	210, 759	---------	--------	---------	--------	---------	--------
Frozen fillets......do....	309, 991	67, 297	(1)	(1)	---------	--------	---------	--------
Sturgeon, smoked.....do....	14, 126	11, 945	---------	--------	---------	--------	---------	--------
Yellow perch:								
Fresh fillets.......do....	121, 019	27, 674	(1)	(1)	173, 700	40, 049	---------	--------
Frozen fillets......do....	18, 747	4, 348	---------	--------	---------	--------	---------	--------
Yellow pike:								
Fresh fillets.......do....	162, 634	37, 376	---------	--------	105, 000	22, 935	---------	--------
Frozen fillets......do....	19, 139	4, 013	---------	--------	---------	--------	---------	--------
Whitefish:								
Fresh fillets.......do....	26, 381	6, 900	---------	--------	---------	--------	---------	--------
Smoked............do....	(1)	(1)	48, 850	12, 396	(1)	(1)	(1)	(1)
Unclassified products:								
Fillets, fresh and frozen pounds..	(2)	(2)	(2)	(2)	(2)	(2)	---------	--------
Smoked............do....	[7] 98, 205	[7] 15, 012	(2)	(2)	[8] 90, 000	[8] 9, 900	(2)	(2)
Spiced............do....	[9] 571, 272	[9] 66, 141	---------	--------	(2)	(2)	---------	--------
Miscellaneous.....do....	---------	[13] 10, 823	[14] 221. 905	[14] 46, 100	---------	[15] 62, 392	---------	[16] 11, 775
Total............do....	---------	1, 329, 202	2, 724, 760	381, 799	---------	517, 472	---------	52, 130
By fishermen:								
Chubs, smoked........do....	10, 000	2, 500	13, 000	3, 900	35, 000	8, 750	---------	--------
Herring, lake:								
Salted.............do....	---------	---------	---------	--------	157, 000	6, 100	198, 440	7, 893
Smoked............do....	---------	---------	175, 000	8, 750	---------	--------	---------	--------
Lake trout, smoked...do....	10, 000	3, 000	12, 500	3, 750	3, 000	900	---------	--------
Whitefish, smoked....do....	---------	---------	2, 500	850	---------	--------	---------	--------
Whitefish, caviar, salted pounds..	---------	---------	---------	--------	---------	--------	60	60
Total..............do....	20, 000	5, 500	203, 000	17, 250	195, 000	15, 750	198, 500	7, 953
Grand total.........do....	---------	1, 334, 702	2, 927, 760	399, 049	---------	533, 222	---------	60, 083

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[1] The production of this item has been included under "Unclassified products."

[2] The production of this item has been included under "Miscellaneous."

[3] Includes fresh fillets of white bass and yellow pike; and frozen fillets of sauger pike, white bass, yellow perch, yellow pike, and whitefish.

[4] Includes fresh fillets of lake trout, whitefish, flounders, mullet and sheepshead, and frozen yellow pike fillets.

[5] Includes smoked chubs, cisco, tullibees, eels, goldeyes, sea herring, and sturgeon, and kippered salmon.

[6] Includes smoked catfish and bullheads, chubs, ciscoes, tullibees, lake herring, mooneye, sablefish, salon, yellow pike, and whitefish.

[7] Includes smoked buffalofish, carp, lake herring. sea herring, whitefish. and whiting. and kippered salmon.

[8] Includes smoked carp and whitefish.

[9] Includes spiced anchovies, sea herring, mackerel, and oyster and shrimp cocktail.

[10] Includes fresh fillets of lake trout and white bass; frozen fillets of lake trout; and spiced sea herring.

[11] Includes smoked carp and spiced alewives.

[12] Includes smoked lake trout and whitefish.

[13] Includes fresh fillets of carp, halibut, lake herring, lake trout, pickerel, salmon, red snapper, and suckers, and canned soft clam chowder.

[14] Includes fresh fillets of blue pike, lake herring, and yellow perch; frozen fillets of sauger pike; and smoked butterfish, carp, mackerel, and sablefish.

[15] Includes fresh lake trout fillets; spiced chub and alewives; burbot-liver oil; poultry feed and lime from fresh-water mussel shells, and canned whitefish caviar.

[16] Includes smoked lake trout, salmon and whitefish; and burbot-liver oil.

NOTE.—The total value of the manufactured products for the Lake States was as follows: By manufacturing establishments, $3,196,461; and by fishermen, $51,546. Some of the above products may have been manufactured from products imported from another State or a foreign country; therefore, they cannot be correlated directly with the catch within the State. All of the persons engaged in the preparation of fishermen's manufactured products have also been included as fishermen and 12 of the persons shown on transporting craft have also been included as fishermen. This should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

FISHERIES OF THE MISSISSIPPI RIVER AND TRIBUTARIES [12]

The most recent complete catch statistics of the fisheries for the States of the Mississippi River and tributaries are those collected for the year 1931. The yield of fishery products in that year amounted to 82,382,523 pounds, valued at $2,897,357, which was a decrease of 22 percent in quantity and 36 percent in value as compared with the quantity and value of the catch in 1922, the year for which the most recent preceding survey was made. Detailed statistics of the fisheries of the Mississippi River and tributaries for 1931 appear in "Fishery Industries of the United States, 1932" by R. H. Fiedler, Appendix III to the Report of the Commissioner of Fisheries for the fiscal year 1933. A summary of these fisheries in 1931, as well as certain data for 1937, appear in the following tables:

Fisheries of the Mississippi River and Tributaries, 1931

OPERATING UNITS: BY STATES

Item	Alabama	Arkansas	Illinois	Indiana	Iowa	Kansas	Kentucky	Louisiana	Minnesota
Fishermen:									
On boats and shore:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Regular	104	1,463	708	20	245	35	89	1,402	160
Casual	131	1,524	1,318	1,735	648	88	440	3,108	578
Total	235	2,987	2,026	1,755	893	123	529	4,510	738
Boats:									
Motor	32	907	676	544	309	18	92	1,225	65
Other	190	2,359	957	1,189	457	123	420	2,369	446
Apparatus:									
Haul seines	--------	16	127	50	133	--------	24	377	113
Length, yards	--------	7,308	33,975	5,170	36,339	--------	2,057	85,166	49,968
Anchor gill nets	--------	4	--------	--------	--------	--------	--------	74	9
Square yards	--------	2,800	--------	--------	--------	--------	--------	17,400	9,999
Trammel nets	--------	31	28	3	--------	90	--------	78	--------
Square yards	--------	3,899	4,890	360	--------	9,026	--------	19,696	--------
Lines, trot	449	5,327	1,312	320	1,158	17	627	5,757	186
Hooks	35,980	455,000	124,715	16,767	186,250	360	37,395	1,392,200	41,800
Pound nets	--------	--------	--------	--------	2	--------	--------	--------	27
Fyke nets	610	5,346	9,852	335	1,981	189	1,231	5,908	74
Dip nets	--------	--------	22	--------	10	--------	--------	159	--------
Traps:									
Crawfish	--------	--------	--------	--------	--------	--------	--------	18	--------
Shrimp	--------	--------	--------	--------	--------	--------	--------	88	--------
Baskets	--------	--------	3,769	--------	--------	--------	--------	--------	--------
Mussel dredges	--------	426	14	--------	--------	--------	--------	--------	--------
Yards at mouth	--------	286	10	--------	--------	--------	--------	--------	--------
Crowfoot bars	168	1,038	840	1,092	464	--------	256	10	192
Tongs	--------	159	--------	72	--------	--------	--------	5	--------
Rakes	--------	70	--------	--------	--------	--------	--------	--------	--------
Forks	--------	102	33	1,278	--------	29	--------	5	--------
Grabs	--------	--------	--------	--------	--------	--------	--------	2,232	--------

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[12] For a clearer understanding of the statistics published in this section, the reader is referred to the section in the later part of the document entitled "Statistical survey procedure."

Fisheries of the Mississippi River and Tributaries, 1931—Continued

OPERATING UNITS: BY STATES—Continued

Items	Mississippi	Missouri	Nebraska	Ohio	Oklahoma	South Dakota	Tennessee	Texas	Wisconsin	Total
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
On boats and shore:										
Regular	211	177			5		327	5	202	5, 153
Casual	198	170	299	49	19	67	206	41	112	10, 731
Total	409	347	299	49	24	67	533	46	314	15, 884
Boats:										
Motor	138	84	30			2	138	6	160	4, 426
Other	329	304	187	49	18	34	467	42	180	10, 120
Apparatus:										
Haul seines	16	47	12	2	2	11			83	1, 013
Length, yards	6, 885	5, 668	906	180	60	1, 948			20, 149	255, 779
Anchor gill nets	4	1			3				6	101
Square yards	800	160			990				13, 488	45, 637
Trammel nets	17	104	115				52			518
Square yards	2, 867	14, 668	4, 833				3, 560			63, 799
Lines:										
Hand							67			67
Hooks							67			67
Trot	847	516		19	29	18	464	80	3	17, 129
Hooks	72, 155	34, 600		900	1, 075	3, 600	41, 690	14, 500	125	2, 459, 112
Pounds nets									345	374
Fyke nets	2, 591	1, 872	296	76	85	68	1, 735	70	222	32, 541
Dip nets										191
Traps:										
Crawfish										18
Shrimp	350									438
Baskets										3, 769
Spears							12			12
Mussel dredges										440
Yards at mouth										296
Crowfoot bars							230		190	4, 480
Tongs		9								245
Rakes										70
Forks										1, 447
Grabs										2, 232

CATCH: BY STATES

Species	Alabama		Arkansas		Illinois		Indiana	
FISH	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Bowfin			700	$28	8, 308	$241		
Buffalofish	21, 330	$2, 342	2, 182, 446	131, 474	911, 609	51, 893	85, 045	$8, 156
Carp	11, 000	1. 118	808. 206	27. 268	4, 878. 744	128. 221	157, 641	10, 162
Catfish and bullheads	81, 200	8, 850	1, 077, 343	93, 150	647, 696	68, 890	35, 370	5, 302
Crappie	9, 772	1, 004	11, 325	227				
Eels					4, 985	322		
Mooneye					1, 000	20		
Paddlefish or spoonbill cat	3, 958	338	93, 200	2, 159	104, 846	5, 480	16, 492	1, 724
Quillback or "American carp"	7, 657	875	6, 830	676	17, 532	608	30, 312	1, 436
Sheepshead	45, 909	4, 972	676, 358	29, 877	177, 709	11, 321	38, 740	3. 711
Sturgeon, shovelnose	575	70			39, 766	3, 448	3, 013	292
Sucker "mullet"	5, 752	609	3, 309	235	25, 130	1, 087	16, 797	1, 156
White bass					1, 200	92		
Yellow pike							4, 550	693
Total	187, 153	20. 178	4. 859, 717	285. 094	6, 818, 525	271. 623	387. 960	32. 632
SHELLFISH, ETC.								
Mussel shells	1, 635, 000	10, 132	10, 872, 790	108, 819	7, 429, 528	82, 894	7, 328, 736	105, 632
Pearls				3, 137		190		125
Slugs		2, 444		14, 401		11, 835		18, 788
Turtles:								
Snappers					14, 577	696	500	25
Soft-shell							400	20
Total	1, 635, 000	12, 576	10, 872, 790	126, 357	7, 444, 105	95, 615	7, 329, 636	124, 590
Grand total	1, 822, 153	32, 754	15, 732, 507	411, 451	14, 262, 630	367, 238	7, 717, 596	157. 222

Fisheries of the Mississippi River and Tributaries, 1931—Continued

CATCH: BY STATES—Continued

Species	Iowa		Kansas		Kentucky		Louisiana[1]	
FISH	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Bowfin	91, 825	$3, 759					5, 715	$114
Buffalofish	746, 615	59, 705	24, 325	$2, 222	164, 558	$14, 429	8, 784, 314	263, 261
Carp	1, 594, 244	80, 134	117, 489	10, 956	113, 461	8, 124	204, 743	4, 127
Catfish and bullheads	467, 340	48, 593	770	111	131, 777	17, 043	6, 602, 987	528, 579
Eels	325	15					200	6
Garfish							72, 450	791
Mooneye	1, 100	28			990	105		
Paddlefish or spoonbill cat	9, 400	638			18, 322	1, 617	495, 544	21. 508
Pike or pickerel	4, 700	470						
Quillback or "American carp"	60, 450	1, 339	100	11	11, 355	984	20, 700	431
Sauger					2, 365	451		
Sheepshead	343, 449	17, 619			52, 560	6, 762	1, 976, 600	39, 577
Sturgeon, shovelnose	17, 650	1, 663	175	24	2, 967	380		
Sucker "mullet"	36, 550	822			10, 294	1, 331		
Yellow pike					70	18		
Total	3, 373, 648	214, 785	142, 859	13, 324	508, 719	51, 244	18, 163, 253	858, 394
SHELLFISH, ETC.								
Crawfish							29, 248	292
Shrimp							38, 503	2, 423
Mussel shells	4, 366, 219	65, 685	312, 562	2, 713	1, 113, 032	8, 786	50, 000	375
Pearls		7, 244						
Slugs		13, 924		636		852		
Frogs							872, 651	130, 612
Terrapin	19, 100	377						
Turtles:								
Snapper	2, 000	40					58, 013	2, 244
Soft-shell	17, 000	340					1, 700	34
Total	4, 404, 319	87, 610	312, 562	3, 349	1, 113, 032	9, 638	1, 050, 115	135, 980
Grand total	7, 777, 967	302, 395	455, 421	16. 673	1, 621, 751	60, 882	19, 213, 368	994. 374

Species	Minnesota		Mississippi		Missouri		Nebraska	
FISH	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Bowfin	16, 598	$282			17, 000	$520		
Buffalofish	257, 431	15, 092	1, 511, 126	$63, 824	178, 991	16, 414	18, 104	$1, 813
Carp	2, 151, 119	97, 756	225, 276	6, 730	433, 117	33, 356	93, 032	9, 305
Catfish and bullheads	53, 804	4, 841	635, 049	42, 384	91, 430	15, 487	34, 174	5, 135
Eels			250	20	1, 055	53		
Minnows					525	209		
Paddlefish or spoonbill cat			158, 821	5, 879	40, 103	2, 917		
Quillback or "American carp"	17, 246	519	2, 157	42	13, 672	946		
Sheepshead	152, 545	7, 938	106, 844	2, 576	38, 186	3, 773		
Sturgeon, shovelnose	1, 634	115	100	3	17, 282	1, 703		
Sucker "mullet"	65, 273	1, 955			2, 275	292		
Total	2, 715, 650	128, 498	2, 639, 623	121, 458	833, 636	75, 670	145, 310	16, 253
SHELLFISH, ETC.								
Shrimp			10, 000	1, 500				
Mussel shells	782, 630	7, 827			94, 000	1, 193		
Pearls		157						
Slugs		1, 174				118		
Turtles, snapper			100	3				
Total	782, 630	9, 158	10, 100	1, 503	94, 000	1, 311		
Grand total	3, 498, 280	137, 656	2, 649, 723	122, 961	927, 636	76, 981	145, 310	16, 253

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[1] According to statistics published by the Louisiana Department of Conservation , the catch of commercial fresh-water fish in Louisiana during 1937 was as follows: Catfish, 3,867,165 pounds, valued at $348,045; gaspergou, 1,562,037 pounds, valued at $78,102; spoonbill cat, 565,026 pounds, valued at $39,552; buffalofish, 5 684 613 pounds, valued at $284,231; terrapins 21,600 in number, valued at $21,600; fresh-water turtles, 61,819 pounds, valued at $9,273; frogs, 2,295,460 pounds, valued at $573,640; fresh-water shrimp, 2,036,575 pounds, valued at $162,926; crayfish, 2,500,000 pounds, valued at $175,000; and "baby" green turtles, 4,700,000 in number, valued at $47,000.

Fisheries of the Mississippi River and Tributaries, 1931—Continued

CATCH: BY STATES—Continued

Species	Ohio		Oklahoma		South Dakota		Tennessee [1]	
FISH	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Black bass							14,000	$1,680
Buffalofish	6,433	$662	21,605	$2,142	38,926	$3,894	478,592	34,247
Carp	14,370	1,543	4,268	425	52,836	2,642	247,841	9,594
Catfish and bullheads	4,380	811	4,935	695	13,500	3,528	271,753	24,750
Crappie					1,392	70	18,652	1,658
Eels							163	25
Paddlefish or spoonbill cat			5,332	533	400	40	5,034	301
Quillback or "American carp"	1,195	119	1,950	195	4,364	220	6,065	843
Sheepshead	1,318	224	1,550	155	697	70	197,670	10,465
Sturgeon, shovelnose	558	72					3,706	393
Sucker "mullet"	2,902	268			2,246	112	8,323	1,119
Sunfish							21,850	1,094
White bass							2,100	106
Yellow pike	325	60						
Total	31,481	3,759	39,640	4,145	114,361	10,576	1,275,749	86,275
SHELLFISH, ETC.								
Mussel shells	154,000	3,005					2,157,000	15,604
Pearls								28
Slugs		308						1,724
Frogs							2,250	270
Terrapin							70	14
Total	154,000	3,313					2,159,320	17,640
Grand total	185,481	7,072	39,640	4,145	114,361	10,576	3,435,069	103,915

Species	Texas		Wisconsin		Total	
FISH	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Black bass					14,000	$1,680
Bowfin			288,170	$4,355	428,316	9,299
Buffalofish	73,000	$2,190	268,001	13,528	15,772,451	687,288
Carp	6,900	138	777,474	23,800	11,891,761	455,399
Catfish and bullheads	47,800	3,824	65,539	5,825	10,266,847	877,798
Crappie					41,141	2,959
Eels					6,978	441
Garfish					72,450	791
Minnows					525	209
Mooneye					3,090	153
Paddlefish or spoonbill cat					951,452	43,134
Pike or pickerel					4,700	470
Quillback or "American carp"	500	10	66,353	2,032	268,438	11,286
Sauger					2,365	451
Sheepshead	10,300	206	84,409	3,692	3,904,844	142,938
Sturgeon, shovelnose					87,426	8,163
Sucker "mullet"			135,984	3,696	314,835	12,682
Sunfish					21,850	1,094
White bass					3,300	198
Yellow pike					4,945	771
Total	138,500	6,368	1,685,930	56,928	44,061,714	2,257,204
SHELLFISH, ETC.						
Crawfish					29,248	292
Shrimp					48,503	3,923
Mussel shells			959,200	8,946	37,254,697	421,611
Pearls				555		11,436
Slugs				2,012		68,216
Frogs					874,901	130,882
Terrapin					19,170	391
Turtles:						
Snapper					75,190	3,008
Soft-shell					19,100	394
Total			959,200	11,513	38,320,809	640,153
Grand total	138,500	6,368	2,645,130	68,441	82,382,523	2,897,357

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[1] According to statistics furnished the Bureau by the office of fish technician, division of game and fish, Tennessee Department of Conservation, the catch of commercial fresh-water fish in Reelfoot Lake in Tennessee during 1937 was as follows: Bass, 5,250 pounds; buffalofish, 206,310 pounds; bullheads, 25,338 pounds; carp, 31,798 pounds; catfish, 83,184 pounds; crappie, 59,296 pounds; drum, 34,648 pounds; eels, 274 pounds; pike, 24 pounds; sunfish, 53,878 pounds; spoonbill cat, 10,239 pounds; white bass, 92 pounds; and yellow bass, 18,762 pounds.

Industries related to the fisheries of the Mississippi River and Tributaries

OPERATING UNITS, SALARIES, AND WAGES, 1931

Item	Arkansas	Illinois	Indiana	Iowa	Kentucky	Louisiana	Minnesota and North Dakota
Transporting:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Persons engaged	13	---------	---------	---------	11	5	---------
Vessels, motor	4	---------	---------	---------	2	2	---------
Net tonnage	69	---------	---------	---------	15	20	---------
Wholesale and manufacturing:							
Establishments	6	38	4	61	11	22	13
Persons engaged:							
Proprietors	3	42	1	52	8	24	11
Salaried employees	9	3	5	79	20	14	27
Wage earners:							
Average for season	152	331	140	2,500	261	70	112
Average for year	72	235	93	2,179	159	68	112
Paid to salaried employees	$11,417	$9,520	$6,820	$141,346	$33,159	$12,400	$55,200
Paid to wage earners	$53,503	$145,683	$51,444	$1,417,678	$81,643	$37,700	$81,500
Total salaries and wages	$64,920	$155,203	$58,264	$1,559,024	$114,802	$50,100	$136,700
Fishermen manufacturing	---------	4	2	---------	---------	200	---------

Item	Mississippi	Missouri and Oklahoma	Nebraska and Kansas	Ohio and Pennsylvania	Tennessee	Wisconsin	Total
Transporting:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Persons engaged	---------	---------	---------	---------	---------	---------	29
Vessels, motor	---------	---------	---------	---------	---------	---------	8
Net tonnage	---------	---------	---------	---------	---------	---------	104
Wholesale and manufacturing:							
Establishments	6	21	3	13	11	8	217
Persons engaged:							
Proprietors	7	24	3	17	9	3	204
Salaried employees	3	125	8	37	15	10	355
Wage earners:							
Average for season	26	328	52	175	90	38	4,275
Average for year	26	261	52	145	52	29	3,483
Paid to salaried employees	$16,000	$291,874	$17,400	$95,878	$34,884	$12,998	$738,896
Paid to wage earners	$22,382	$202,944	$45,580	$138,817	$38,177	$24,483	$2,341,534
Total salaries and wages	$38,382	$494,818	$62,980	$234,695	$73,061	$37,481	$3,080,430
Fishermen manufacturing	7	3	---------	---------	---------	---------	216

Industries related to the fisheries of the Mississippi River and Tributaries—Contd.

PRODUCTS MANUFACTURED

Item	Indiana		Illinois, Iowa, and Missouri		Louisiana	
	Quantity	*Value*	*Quantity*	*Value*	*Quantity*	*Value*
By manufacturing establishments:						
Salmon, smoked.....pounds	--------	--------	240,000	$48,800	--------	--------
Sturgeon, smoked.....do	--------	--------	162,000	39,140	--------	--------
Mussel-shell products:						
Buttons [2].....gross	--------	--------	12,960,342	3,751,879	--------	--------
Poultry feed [2].....tons	--------	--------	4,290	26,467	--------	--------
Lime [2].....do	--------	--------	928	1,022	--------	--------
Unclassified [2]	--------	--------	--------	[3] 29,412	--------	--------
Unclassified, smoked.....pounds	--------	--------	[4] 83,000	[4] 14,440	--------	--------
Total	--------	--------	--------	3,911,160	--------	--------
By fishermen:						
Alligator hides.....pounds	--------	--------	--------	--------	88,356	$7,363
Carp, smoked.....do	--------	--------	667	67	--------	--------
Paddlefish, roe, salted.....do	450	$180	900	540	--------	--------
Sheepshead, smoked.....do	--------	--------	617	77	--------	--------
Sturgeon:						
Smoked.....do	--------	--------	1,333	400	--------	--------
Roe, salted.....do	--------	--------	35	32	--------	--------
Total	450	180	3,552	1,116	88,356	7,363
Grand total	450	180	--------	3,912,276	88,356	7,363

Item	Minnesota and Nebraska		Mississippi		Ohio, Tennessee, and Pennsylvania	
	Quantity	*Value*	*Quantity*	*Value*	*Quantity*	*Value*
By manufacturing establishments:						
Chubs, smoked.....pounds	--------	--------	--------	--------	106,600	$26,650
Salmon, smoked.....do	(1)	(1)	--------	--------	(1)	(1)
Sturgeon, smoked.....do	(1)	(1)	--------	--------	--------	--------
Whitefish, smoked.....do	255,000	$47,200	--------	--------	(1)	(1)
Unclassified, smoked.....do	[5] 66,600	[5] 19,793	--------	--------	[6] 184,900	[6] 50,555
Total	321,600	66,993	--------	--------	291,500	77,205
By fishermen, paddlefish roe, salted.....do	--------	--------	245	$92	--------	--------
Grand total	321,600	66,993	245	92	291,500	77,205

[1] The production of this item is included under unclassified products.
[2] Data are for 1937.
[3] Includes mussel-shell chips and novelties.
[4] Includes smoked buffalofish and tullibees.
[5] Includes smoked eels, salmon, and sturgeon.
[6] Includes smoked buffalofish, butterfish, carp, lake trout, paddlefish, sablefish, salmon, tullibees, and whitefish.

NOTE.—Unless otherwise indicated the data are for 1931. The total value of the manufactured products for the States of the Mississippi River and tributaries was as follows: By manufacturing establishments $4,055,358; and by fishermen $8,751. Some of the products may have been manufactured from fishery products imported from another State or a foreign country, therefore, they cannot be correlated directly with the catch within the State.

LAKE PEPIN

Fisheries of Lake Pepin, 1937

OPERATING UNITS: BY GEAR

Item	Haul seines	Trammel nets	Trot lines	Total, exclusive of duplication
Fishermen:	*Number*	*Number*	*Number*	*Number*
Regular	7	13		20
Casual	11	15	40	47
Total	18	28	40	67
Boats:				
Motor	6	12	5	23
Other	9	13	38	56
Apparatus:				
Number	7	13	40	
Length, yards	2,332			
Square yards		21,450		
Hooks			4,000	

CATCH: BY GEAR

Species	Haul seines		Trammel nets		Trot lines		Total	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Bowfin	12,200	$122					12,200	$122
Buffalofish	25,000	895	12,500	$435			37,500	1,330
Carp	224,200	5,184	125,300	2,956	2,000	$46	351,500	8,186
Catfish and bullheads	2,000	280	14,800	1,832	15,600	2,046	32,400	4,158
Sheepshead	22,300	912	6,600	276	2,700	135	31,600	1,323
Sucker "mullet"	9,000	90					9,000	90
Turtles, snapper					600	48	600	48
Total	294,700	7,483	159,200	5,499	20,900	2,275	474,800	15,257

OPERATING UNITS: BY STATES

Item	Minnesota	Wisconsin	Total for lake
Fishermen:	*Number*	*Number*	*Number*
Regular		20	20
Casual	9	38	47
Total	9	58	67
Boats:			
Motor	2	21	23
Other	7	49	56
Apparatus:			
Haul seines		7	7
Length, yards		2,332	2,332
Trammel nets		13	13
Square yards		21,450	21,450
Trot lines	9	31	40
Hooks	900	3,100	4,000

Fisheries of Lake Pepin, 1937—Continued

CATCH: By States

Species	Minnesota		Wisconsin		Total for lake	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Bowfin			12,200	$122	12,200	$122
Buffalofish			37,500	1,330	37,500	1,330
Carp	2,000	$46	349,500	8,140	351,500	8,186
Catfish and bullheads	6,600	924	25,800	3,234	32,400	4,158
Sheepshead	2,700	135	28,900	1,188	31,600	1,323
Sucker "mullet"			9,000	90	9,000	90
Turtles, snapper	600	48			600	48
Total	11,900	1,153	462,900	14,104	474,800	15,257

LAKE KEOKUK

Fisheries of Lake Keokuk, 1937

OPERATING UNITS: By gear

Item	Haul seines	Trammel nets	Trot lines	Fyke nets	Total, exclusive of duplication
	Number	*Number*	*Number*	*Number*	*Number*
Fishermen:					
Regular	25	2	7	29	53
Casual	61	33	65	104	123
Total	86	35	72	133	176
Boats:					
Motor	20	16	39	91	111
Other	28	6	33	68	107
Apparatus:					
Number	24	34	224	2,205	
Length, yards	3,250				
Square yards		3,800			
Hooks			21,000		

CATCH: By gear

Species	Haul seines		Trammel nets		Trot lines		Fyke nets		Total	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Bowfin	3,900	$78							3,900	$78
Buffalofish	84,800	3,393	19,500	$780			90,700	$3,585	195,000	7,758
Carp	231,600	4,651	49,000	980			247,100	5,183	527,700	10,814
Catfish and bullheads	15,600	1,564			38,200	$3,819	116,700	11,674	170,500	17,057
Eels							100	5	100	5
Paddlefish or spoonbill cat	8,700	870	2,000	200	2,000	200	500	50	13,200	1,320
Sheepshead	86,800	4,382	16,000	800	1,000	50	62,500	3,318	166,300	8,550
Sturgeon, shovelnose	300	30			1,000	100			1,300	130
Sucker "mullet"	1,000	15							1,000	15
Turtles:										
Snapper	2,500	50					1,500	65	4,000	115
Soft-shell	500	25							500	25
Total	435,700	15,058	86,500	2,760	42,200	4,169	519,100	23,880	1,083,500	45,867

Fisheries of Lake Keokuk, 1937—Continued

OPERATING UNITS: BY STATES

Item	Illinois	Iowa	Total for lake
Fishermen:			
Regular	27	26	53
Casual	57	66	123
Total	84	92	176
Boats:			
Motor	54	57	111
Other	48	59	107
Apparatus:			
Haul seines	3	21	24
Length, yards	550	2, 700	3, 250
Trammel nets	----------	34	34
Square yards	----------	3, 800	3, 800
Trot lines	104	120	224
Hooks	12, 000	9, 000	21, 000
Fyke nets	1, 479	726	2, 205

CATCH: BY STATES

Species	Illinois		Iowa		Total	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Bowfin	900	$18	3, 000	$60	3, 900	$78
Buffalofish	70, 000	2, 801	125, 000	4, 957	195, 000	7, 758
Carp	216, 700	4, 597	311, 000	6, 217	527, 700	10, 814
Catfish and bullheads	91, 900	9, 194	78, 600	7, 863	170, 500	17, 057
Eels	----------	--------	100	5	100	5
Paddlefish or spoonbill cat	8, 500	850	4, 700	470	13, 200	1, 320
Sheepshead	63, 500	3, 418	102, 800	5, 132	166, 300	8, 550
Sturgeon, shovelnose	----------	--------	1, 300	130	1, 300	130
Sucker "mullet"	500	10	500	5	1, 000	15
Turtles:						
Snapper	1, 500	65	2, 500	50	4, 000	115
Soft-shell	----------	--------	500	25	500	25
Total	453, 500	20, 953	630, 000	24, 914	1, 083, 500	45, 867

MISSISSIPPI RIVER BETWEEN LAKE PEPIN AND LAKE KEOKUK

Fisheries of the Mississippi River between Lake Pepin and Lake Keokuk, 1937

OPERATING UNITS: BY GEAR

Item	Haul seines	Anchor gill nets	Trammel nets	Trot lines	Pound nets	Fyke nets	Dip nets	Total, exclusive of duplication
Fishermen:	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Regular	81	7	54	11	6	102	--------	229
Casual	206	9	108	204	7	140	16	573
Total	287	16	162	215	13	242	16	802
Boats:								
Motor	97	8	63	47	5	194	1	345
Other	104	8	78	180	7	216	10	505
Apparatus:								
Number	87	9	409	378	48	5, 012	16	----------
Length, yards	14, 955	--------	--------	--------	--------	--------	--------	----------
Square yards	--------	6, 162	30, 190	--------	--------	--------	--------	----------
Hooks	--------	--------	--------	36, 600	--------	--------	--------	----------

Fisheries of the Mississippi River between Lake Pepin and Lake Keokuk, 1937—Con.

CATCH: By gear

Species	Haul seines		Anchor gill nets		Trammel nets		Trot lines	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Bowfin	97, 800	$1, 397			4, 600	$46		
Buffalofish	354, 000	13, 720	3, 500	$131	193, 100	7, 803	2, 200	$86
Carp	891, 900	22, 525	16, 900	432	461, 300	10, 517	10, 600	277
Catfish and bullheads	17, 400	1, 791	2, 100	252	44, 500	4, 624	149, 300	15, 251
Eels							300	30
Paddlefish or spoonbill cat							5, 600	560
Pike or pickerel	1, 700	129			2, 100	168	200	12
Sheepshead	183, 500	9, 161			51, 900	2, 907	11, 900	601
Sturgeon, shovelnose	800	128			10, 000	1, 226	7, 200	910
Sucker "mullet"	33, 400	456			2, 300	46		
Turtles:								
Snapper	1, 900	80						
Soft-shell	3, 300	295						
Total	1, 585, 700	49, 682	22, 500	815	769, 800	27, 337	187, 300	17, 727

Species	Pound nets		Fyke nets		Dip nets		Total	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Bowfin			21, 800	$303			124, 200	$1, 746
Buffalofish	8, 900	$291	264, 900	10, 272	7, 000	$350	833, 600	32, 653
Carp	24, 500	490	591, 700	14, 269	5, 200	208	2, 002, 100	48, 718
Catfish and bullheads	4, 300	374	312, 600	30, 213			530, 200	52, 505
Eels			200	23			500	53
Paddlefish or spoonbill cat			3, 600	356			9, 200	916
Pike or pickerel			12, 700	813			16, 700	1, 122
Sheepshead	7, 400	286	163, 200	8, 053	4, 000	200	421, 900	21, 208
Sturgeon, shovelnose	1, 100	176	22, 300	2, 459			41, 400	4, 899
Sucker "mullet"			2, 800	56			38, 500	558
Turtles:								
Snapper			1, 600	80			3, 500	160
Soft-shell			1, 600	55			4, 900	350
Total	46, 200	1, 617	1, 399, 000	66, 952	16, 200	758	4, 026, 700	164, 888

OPERATING UNITS: By States

Item	Illinois	Iowa	Minnesota	Wisconsin	Total
	Number	*Number*	*Number*	*Number*	*Number*
Fishermen:					
Regular	54	104	6	65	229
Casual	158	241	50	124	573
Total	212	345	56	189	802
Boats:					
Motor	118	159	13	55	345
Other	108	248	44	105	505
Apparatus:					
Haul seines	16	36	5	30	87
Length, yards	2, 450	5, 282	998	6, 225	14, 955
Anchor gill nets			2	7	9
Square yards			2, 666	3, 496	6, 162
Trammel nets	341	46		22	409
Square yards	935	8, 201		21, 054	30, 190
Lines, trot	73	218	43	44	378
Hooks	7, 500	20, 400	4, 300	4, 400	36, 600
Pound nets		48			48
Fyke nets	2, 087	2, 599		326	5, 012
Dip nets		16			16

Fisheries of the Mississippi River between Lake Pepin and Lake Keokuk, 1937—Con.

CATCH: BY STATES

Species	Illinois		Iowa		Minnesota		Wisconsin		Total	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
Bowfin	4, 200	$44	56, 300	$668	500	$8	63, 200	$1, 026	124, 200	$1, 746
Buffalofish	177, 500	6, 983	415, 000	16, 305	12, 900	495	228, 200	8, 870	833, 600	32, 653
Carp	356, 600	8, 202	773, 000	16, 545	87, 800	2, 360	784, 700	21, 611	2, 002, 100	48, 718
Catfish and bullheads	146, 900	14, 921	275, 600	25, 909	27, 200	2, 920	80, 500	8, 755	530, 200	52, 505
Eels	100	12	400	41					500	53
Paddlefish or spoonbill cat	3, 700	366	5, 500	550					9, 200	916
Pike or pickerel			16, 700	1, 122					16, 700	1, 122
Sheepshead	134, 500	6, 626	195, 000	9, 676	12, 500	627	79, 900	4, 279	421, 900	21, 208
Sturgeon, shovelnose			41, 400	4, 899					41, 400	4, 899
Sucker "mullet"	5, 500	96	17, 800	275			15, 200	187	38, 500	558
Turtles:										
Snapper	600	12	2, 900	148					3, 500	160
Soft-shell	1, 000	32	3, 900	318					4, 900	350
Total	830, 600	37, 294	1, 803, 500	76, 456	140, 900	6, 410	1, 251, 700	44, 728	4, 026, 700	164. 888

FISHERIES OF ALASKA[13]

The commercial catch of fishery products in Alaska during 1937, exclusive of whales, amounted to 825,783,422 pounds, valued at $14,237,771, which is a decrease of 11 percent in quantity but an increase of 2 percent in value as compared with the catch in 1936. Of the total catch in 1937, 593,383,891 pounds, valued at $11,876,351, consisted of salmon; 229,340,640 pounds, valued at $2,142,306, other fish; and 3,058,891 pounds, valued at $219,114, shellfish. In addition, 376 whales were taken. These fisheries gave employment to 11,570 fishermen, 2,159 persons on transporting craft, and 16,602 persons in fishery wholesale and manufacturing industries—a total of 30,331 persons, which is a decrease of less than one half of one percent as compared with the number employed in 1936.

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[13] Statistics for the fisheries of Alaska are collected and compiled by the Alaska Division of this Bureau. A summary of these statistics appears in this section. For detailed figures the reader is referred to "Alaska Fishery and Fur Seal Industries," by Ward T. Bower, Appendix II to the report of the Commissioner of Fisheries for the fiscal year 1938.

Fisheries of Alaska, 1937

SUMMARY: BY DISTRICTS

Item	Southeast Alaska		Central Alaska		Western Alaska		Total	
PERSONS ENGAGED	*Number*	*Value*	*Number*	*Value*	*Number*	*Value*	*Number*	*Value*
In fishing	5, 278		2, 989		3, 303		11, 570	
In transporting	950		745		464		2, 159	
In wholesale and manufacturing industries	7, 474		4, 677		4, 451		16, 602	
Total	13, 702		8, 411		8, 218		30, 331	
CRAFT EMPLOYED								
Vessels fishing	774		87		11		872	
Boats fishing	2, 206		1, 554		1, 426		5, 186	
Vessels transporting	198		140		90		428	
Scows, houseboats, pile drivers, etc	311		267		197		775	
Total	3, 489		2, 048		1, 724		7, 261	
CATCH								
Fish:	*Pounds*		*Pounds*		*Pounds*		*Pounds*	
Salmon	252, 350, 760	$4, 537, 572	191, 902, 005	$3, 512, 242	149, 131, 126	$3, 826, 537	593, 383, 891	$11, 876, 351
Other	111, 029, 442	1, 538, 304	118, 096, 489	602, 874	214, 709	1, 128	229, 340, 640	2, 142, 306
Shellfish	1, 249, 540	72, 737	1, 809, 351	146, 377			3, 058, 891	219, 114
Total	364, 629, 742	6, 148, 613	311, 807, 845	4, 261, 493	149, 345, 835	3, 827, 665	825, 783, 422	14, 237, 771
	Number		*Number*		*Number*		*Number*	
Whales			120		256		376	
WHOLESALE AND MANUFACTURING								
Establishments	103		97		36		236	
PRODUCTS AS PREPARED FOR MARKET	*Pounds*		*Pounds*		*Pounds*		*Pounds*	
Salmon	157, 088, 189	17, 794, 401	107, 456, 903	13, 773, 497	74, 636, 380	15, 006, 030	339, 181, 472	46, 573, 928
Herring	35, 957, 937	1, 119, 410	50, 750, 224	1, 769, 908	40, 275	2, 536	86, 748, 436	2, 891, 854
Halibut	13, 277, 064	991, 529	150, 617	13, 100			13, 427, 681	1, 004, 629
Cod			154, 724	8, 164	48, 603	2, 174	203, 327	10, 338
Trout	61, 999	4, 848					61, 999	4, 848
Sablefish	2, 102, 967	91, 313					2, 102, 967	91, 313
Smelt	275	8					275	8
Flounder	180, 000	4, 500					180, 000	4, 500
Rockfish	16, 843	336					16, 843	336
"Lingcod"	3, 007	921					3, 007	921
Clam	3, 432	977	405, 039	239, 415			408, 471	240, 392
Shrimp	453, 521	161, 098	9, 864	3, 835			463, 385	164, 933
Crab	216, 797	80, 644	494, 521	195, 455			711, 318	276, 099
Whale			2, 419, 500	128, 703	6, 616, 000	350, 418	9, 035, 500	479, 121
Total	209, 362, 031	20, 249, 985	161, 841, 392	16, 132, 077	81, 341, 258	15, 361, 158	452, 544, 681	51, 743, 220

Fisheries of Alaska, 1937—Continued

OPERATING UNITS: BY DISTRICTS

Item	South-east Alaska	Central Alaska	Western Alaska	Total
	Number	*Number*	*Number*	*Number*
Fishermen	5,278	2,989	3,303	11,570
Vessels fishing:				
Steam		3	3	6
Net tonnage		207	281	488
Motor	774	84	8	866
Net tonnage	9,638	1,962	247	11,847
Boats fishing:				
Motor	1,047	605	40	1,692
Other	1,159	949	1,386	3,494
Apparatus:				
Traps	284	169		453
Purse seines	575	279	8	862
Yards	196,082	62,240	4,400	262,722
Haul seines	6	203		209
Yards	1,200	39,038		40,238
Apparatus—Continued.				
Gill nets	384	1,537	2,200	4,121
Yards	49,920	199,140	343,562	592,622
Beam trawls	12	1		13
Wheels			255	255
Lines:				
Hand lines (cod fishery)		21	15	36
Trawl lines (cod fishery)		3	3	6
Troll lines	3,718			3,718
Skates of lines (halibut fishery)	3,538			3,538
Crab pots	2,973	506		3,479
Herring pounds	4			4
Herring pound seines	9			9

CATCH: BY DISTRICTS

[Estimated round weight and value to fishermen]

Item	Southeast Alaska		Central Alaska		Western Alaska		Total	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
FISH								
Salmon:								
Blueback, red or sockeye	15, 310, 337	$478, 040	40, 316, 310	$1, 237, 225	137, 832, 281	$3, 742, 657	193, 458, 928	$5, 457, 922
Chinook or king	17, 589, 560	439, 694	2, 228, 140	88, 686	1, 617, 460	20, 920	21, 435, 160	549, 300
Chum or keta	50, 004, 090	604, 847	20, 797, 623	227, 206	9, 662, 913	62, 543	80, 464, 626	894, 596
Humpback or pink	158, 248, 741	2, 754, 133	124, 034, 804	1, 861, 535	944	1	282, 284, 489	4, 615, 669
Silver or coho	11, 198, 032	260, 858	4, 525, 128	97, 590	17, 528	416	15, 740, 688	358, 864
Herring	88, 969, 788	444, 849	117, 415, 746	587, 079	60, 112	300	206, 445, 646	1, 032, 228
Halibut	18, 762, 234	991, 529	211, 596	13, 100			18, 973, 830	1, 004, 629
Cod			469, 147	2, 695	154, 597	828	623, 744	3, 523
Trout:								
Dolly Varden	55, 356	3, 221					55, 356	3, 221
Steelhead	22, 142	1, 627					22, 142	1, 627
Sablefish	2, 990, 272	91, 313					2, 990, 272	91, 313
Smelt	413	8					413	8
Flounder	200, 000	4, 500					200, 000	4, 500
Rockfishes	25, 912	336					25, 912	336
"Lingcod"	3, 325	921					3, 325	921
Total	363, 380, 202	6, 075, 876	309, 998, 494	4, 115, 116	149, 345, 835	3, 827, 665	822, 724, 531	14, 018, 657
SHELLFISH								
Crabs:								
Dungeness	416, 315	40, 066	976, 706	97, 528			1, 393, 021	137, 594
King	3, 504	256	2, 736	199			6, 240	455
Shrimp	822, 857	32, 220	19, 831	767			842, 688	32, 987
Clams:								
Butter	6, 864	195	6, 000	400			12, 864	595
Razor			804, 078	47, 483			804, 078	47, 483
Total	1, 249, 540	72, 737	1, 809, 351	146, 377			3, 058, 891	219, 114
Grand total	364, 629, 742	6, 148, 613	311, 807, 845	4, 261, 493	149, 345, 835	3, 827, 665	825, 783, 422	14, 237, 771

NOTE.—In addition to the above statistics, 376 whales were taken in Alaska waters. The round weight and value to fishermen cannot be determined, but the products amounted to 9,035,500 pounds, valued at $479,121.

Industries related to the fisheries of Alaska, 1937

TRANSPORTING

Item	Southeast Alaska	Central Alaska	Western Alaska	Total
	Number	*Number*	*Number*	*Number*
Persons engaged	950	745	464	2,159
Vessels transporting:				
Steam			7	7
Net tonnage			23,986	23,986
Vessels transporting—Continued,				
Motor	198	140	83	421
Net tonnage	5,855	6,573	2,077	14,505
Scows, houseboats, pile drivers, etc.	311	267	197	775

WHOLESALE AND MANUFACTURING

Item	Southeast Alaska	Central Alaska	Western Alaska	Total
	Number	*Number*	*Number*	*Number*
Persons engaged	7,474	4,677	4,451	16,602
Establishments:				
Handling fresh and frozen fish	49	9		58
Curing fish	27	48	18	93
Canning fish	52	49	23	124
Manufacturing byproducts	9	12	1	22
Total (exclusive of duplication)	103	97	36	236

PRODUCTS AS PREPARED FOR MARKET

Item	Southeast Alaska		Central Alaska		Western Alaska		Total	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
FRESH								
Salmon (for food)	3, 421, 129	$292, 316					3, 421, 129	$292, 316
Herring (for bait)	2, 674, 260	31, 180	57, 125	$656			2, 731, 385	31, 836
Halibut	6, 136, 109	419, 959					6, 136, 109	419, 959
Halibut livers	143, 500	71, 750	2, 500	1, 250			146, 000	73, 000
Trout	41, 740	2, 966					41, 740	2, 966
Sablefish	4, 063	110					4, 063	110
Sablefish livers	69, 582	27, 833					69, 582	27, 833
Flounder	180, 000	4, 500					180, 000	4, 500
"Lingcod" livers	2, 264	906					2, 264	906
Crabs:								
Meat	56, 598	20, 510	5, 916	2, 549			62, 514	23, 059
Whole, in shell	13, 775	1, 152	9, 600	640			23, 375	1, 792
Shrimp:								
Meat	444, 844	158, 155	8, 926	3, 534			453, 770	161, 689
Whole, in shell	2, 110	316	50	5			2, 160	321
Total	13, 189, 974	1, 031, 653	84, 117	8, 634			13, 274, 091	1, 040, 287
FROZEN								
Salmon (for food)	5, 344, 666	431, 614					5, 344, 666	431, 614
Salmon (for bait)	59, 750	634					59, 750	634
Herring (for bait)	2, 506, 787	16, 980					2, 506, 787	16, 980
Halibut	6, 996, 102	499, 750	148, 117	11, 850			7, 144, 219	511, 600
Halibut cheeks	1, 353	70					1, 353	70
Trout	20, 259	1, 882					20, 259	1, 882
Sablefish	1, 839, 137	56, 576					1, 839, 137	56, 576
Smelt	275	8					275	8
Rockfishes	16, 843	336					16, 843	336
"Lingcod"	743	15					743	15
Shrimp	6, 567	2, 627					6, 567	2, 627
Total	16, 792, 482	1, 010, 492	148, 117	11, 850			16, 940, 599	1, 022, 342
CURED								
Salmon:								
Mild-cured	5, 620, 800	1, 051, 744			100, 800	$12, 600	5, 721, 600	1, 064, 344
Pickled	18, 800	1, 574	290, 696	37, 803	455, 900	61, 173	765, 396	100, 550
Dry-salted			11, 725	1, 900			11, 725	1, 900
Dried					1, 148, 000	79, 900	1, 148, 000	79, 900
Herring:								
Pickled (for food), Scotch-cure	72, 750	4, 161	1, 995, 415	101, 656	29, 875	2, 151	2, 098, 040	107, 968
Roused					10, 400	385	10, 400	385
Spiced	350	75					350	75
Cod:								
Dry-salted			98, 684	3, 635	42, 090	1, 554	140, 774	5, 189
Pickled			34, 950	1, 668	5, 560	468	40, 510	2, 136
Stockfish			21, 090	2, 861	953	152	22, 043	3, 013
Sablefish, pickled	190. 185	6, 794					190, 185	6, 794
Total	5, 902, 885	1, 064, 348	2, 452, 560	149, 523	1, 793, 578	158, 383	10, 149, 023	1, 372, 254

Industries related to the fisheries of Alaska, 1937—Continued

PRODUCTS AS PREPARED FOR MARKET—Continued

Item	Southeast Alaska		Central Alaska		Western Alaska		Total	
	Pounds	*Value*	*Pounds*	*Value*	*Pounds*	*Value*	*Pounds*	*Value*
CANNED								
Salmon:								
Blueback, red or sockeye	8, 051, 712	$1, 873, 980	22, 187, 568	$4, 820, 456	70, 880. 832	$14, 619, 402	101, 120, 112	$21, 313, 838
Chinook or king	1, 473, 264	282, 133	1, 518, 912	341, 519	342, 288	66, 887	3, 334, 464	690, 539
Chum or keta	24, 180, 768	2, 320, 377	9, 197, 280	890, 584	1, 701, 888	165, 033	35, 079, 936	3, 375, 994
Humpback or pink	102, 872, 064	10, 763, 188	71, 146, 080	7, 286, 290	48	5	174, 018, 192	18, 049, 483
Silver or coho	4, 249, 200	738, 507	2, 335, 392	378, 378	6, 624	1, 030	6, 591, 216	1, 117, 915
Kippered salmon	7, 536	1, 794					7, 536	1, 794
Clams	3, 432	977	405, 039	239, 415			408, 471	240, 392
Crabs	146, 424	58, 982	479, 005	192, 266			625, 429	251, 248
Shrimp			888	296			888	296
Total	140, 984, 400	16, 039, 938	107, 270, 164	14, 149, 204	72, 931, 680	14, 852, 357	321, 186, 244	45, 041, 499
BYPRODUCTS								
Meal:								
Salmon	1, 400, 000	21, 000	572, 000	8, 151			1, 972, 000	29, 151
Whale			660, 000	8, 730	1, 750, 000	24, 075	2, 410, 000	32, 805
Herring	15, 899, 608	277, 997	21, 732, 926	351, 272			37, 632, 534	629, 269
Oil:								
Salmon	388, 500	15, 540	197. 250	8, 416			585, 750	23, 956
Herring	14, 804, 182	789, 017	26, 964, 758	1, 316, 324			41, 768, 940	2, 105, 341
Whale			1, 462, 125	109, 172	3, 901, 500	291, 312	5, 363, 625	400, 484
Sperm			297, 375	10, 801	964, 500	35, 031	1, 261, 875	45, 832
Total	32, 492, 290	1, 103, 554	51, 886, 434	1, 812, 866	6, 616, 000	350, 418	90, 994, 724	3, 266, 838
Grand total	209, 362, 031	20, 249, 985	161, 841, 392	16, 132, 077	81, 341, 258	15, 361, 158	452, 544, 681	51, 743, 220

NOTE.—The output of fresh and frozen halibut includes all fares of the Alaska fleet, some of which were landed at other than Alaska ports. The amount of livers landed by the Alaska fleet has not been reported, and the quantity shown herein is the estimated amount landed in Alaska. The total landings of halibut, other than livers, in Alaska in 1937 mounted to 8,705,204 pounds, valued at $557,911 (including 3,000 pounds, valued at $190, landed by Canadian vessels).

Supplementary table showing the pack of canned products in "standard cases" [1]

Item	Southeast Alaska		Central Alaska		Western Alaska		Total	
	Cases	*Value*	*Cases*	*Value*	*Cases*	*Value*	*Cases*	*Value*
Salmon:								
Blueback, red or sockeye	167, 744	$1, 873, 980	462, 241	$4, 820, 456	1, 476, 684	$14, 619, 402	2, 106, 669	$21, 313, 838
Chinook or king	30, 693	282, 133	31, 644	341, 519	7, 131	66, 887	69, 468	690, 539
Chum or keta	503, 766	2, 320, 377	191, 610	890, 584	35, 456	165, 033	730, 832	3, 375, 994
Humpback or pink	2, 143, 168	10, 763, 188	1, 482, 210	7, 286, 290	1	5	3, 625, 379	18, 049, 483
Silver or coho	88, 525	738, 507	48, 654	378, 378	138	1, 030	137, 317	1, 117, 915
Kippered salmon	157	1, 794					157	1, 794
Clams	229	977	27, 002	239, 415			27, 231	240, 392
Crabs	3, 051	58, 982	9, 979	192, 266			13, 030	251, 248
Shrimp			51	296			51	296
Total	2, 937, 333	16, 039, 938	2, 253, 391	14, 149, 204	1, 519, 410	14, 852, 357	6, 710, 134	45, 041, 499

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[1] The pack of salmon, kippered salmon, and crabs has been converted to "standard cases" of 48 1-pound cans, clams to "standard cases" of 48 No. 1 5-ounce cans, and shrimp to "standard cases" of 48 5¾-ounce cans.

Supplementary table showing the output of byproducts in tons and gallons

Item	Southeast Alaska		Central Alaska		Western Alaska		Total	
	Quantity	*Value*	*Quantity*	*Value*	*Quantity*	*Value*	*Quantity*	*Value*
Meal:								
Salmon tons	700	$21, 000	286	$8, 151			986	$29, 151
Whale do			330	8, 730	875	$24, 075	1, 205	32, 805
Herring do	7, 950	277, 997	10, 866	351, 272			18, 816	629, 269
Oil:								
Salmon gallons	51, 800	15, 540	26, 300	8, 416			78, 100	23, 956
Herring do	1, 973, 891	789, 017	3, 595, 301	1, 316, 324			5, 569, 192	2, 105, 341
Whale do			194, 950	109, 172	520, 200	291, 312	715, 150	400, 484
Sperm do			39, 650	10, 801	128, 600	35, 031	168, 250	45, 832
Total		1, 103, 554		1, 812, 866		350, 418		3, 266, 838

WHALING [14]

The history of whaling presents one of the most romantic chapters in the annals of seafaring life. Since its inception, in the Bay of Biscay early in the twelfth century, whaling has been carried on at one time or another in all the oceans of the world.

At the beginning of the eighteenth century the New England colonists became prominent in the industry, and by 1846 there were 735 American vessels engaged in the fishery.

The American fishery continued to expand and flourish until the discovery of petroleum in the United States about 1850. Due to lower production costs, the distillation products of petroleum quickly replaced whale oil for illumination purposes. In 1871 practically the entire Arctic fleet was destroyed by ice. This catastrophe, followed by the substitution of steel for whalebone, marked the end of American supremacy.

The relentless, unrestricted pursuit of these huge marine mammals led inevitably to the virtual extermination of certain species in first one sea and then another. In 1887 new impetus was given the stricken industry by the invention of the harpoon gun by a Norwegian sailor, Svend Foyne. The harpoon gun, shooting a heavy harpoon with an exploding bomb, and mounted on the bow of fast boats of 100 to 150 tons, made it possible to capture the large finback, blue, sei, and humpback whales, which previously had been too speedy and dangerous to hunt. A few years later a violent controversy, which culminated in a successful protest by the Norwegian cod fishery, closed Norwegian waters to whaling (Norwegian Fisheries Act of Jan. 7, 1904). This led to the exploitation of distant fields, the establishment of new shore stations, and ultimately to the introduction of the huge modern factory ship. With the advent of the factory ship the Antarctic, hitherto unexplored, was invaded.

Shortly after the beginning of the twentieth century, oil chemists learned the manner of converting whale oil into hardened fat. Later, the World War created a demand for gylcerine and once more whale oil returned as an important product of commerce.

By 1930 Antarctic whaling had developed to such amazing proportions that for the first time leaders in the industry were forced to heed the warnings of eminent biologists and conservationists who had long followed with misgivings this unremitting warfare against these creatures. In 1931 the League of Nations provided for a committee of experts to consider the question. This committee adopted a Convention for the Regulation of Whaling. The Convention was signed by 26 nations, including the United States. In the United States, the Whaling Treaty Act of May 1, 1936, and the Joint Regulations of the Secretary of the Treasury and the Secretary of Commerce, of October 9, 1936, promulgated thereunder, gave effect to this Convention.

An International Whaling Conference, held in London, England, on June 8, 1937, drafted an Agreement to supplement and extend the International Convention for the Regulation of Whaling. This agreement was ratified by the United States and the new Joint

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[14] This section was prepared by Ralph A. Ferrandini, Special Whaling Agent, Law Enforcement Division.

Regulations of the Secretary of the Treasury and the Secretary of Commerce were signed by the President December 20, 1938.

The original Convention and subsequent legislation, among other things, prohibited the killing of right and gray whales; set definite limits on various other species, required the licensing of all shore stations, factory ships, and killer boats, and the collection of statistical and biological data on all whales killed.

In general it may be stated that there are virtually two groups of whales. All have their young in the tropical waters; then, accompanied by their calves, one group migrates to the Antarctic and the other to the Arctic. The Northern group leaves the tropical waters of the Caribbean Sea and Lower California in the spring or early summer, travels to the Arctic Seas, and returns along the same general route in the fall. Thus, whaling in Northern waters usually starts in May or June and ends in October.

The seasons are reversed in the Southern Hemisphere; therefore, the Southern group leaves the tropical waters off the coasts of Africa, South America, and Australia in the Antarctic spring, i. e., October, migrates to the Antarctic polar seas during the Antarctic summer and returns to tropical waters in autumn (March and April). Whaling in the Antarctic is restricted to a definite season. The season opens December 8 and closes March 7. During 1937–38 the season was extended to March 15.

The American whaling industries operated for the first time under these new regulations during the 1937–38 season. The value of the whale products are conservatively estimated at $6,000,000, and fees for whaling licenses yielded $10,250 to the Federal Government.

A Coast Guard inspector was assigned to each shore station and factory ship. Uniform methods for the collection of statistical and biological data were inaugurated by the Bureau of Fisheries. Samples of stomach contents were taken when practicable and a comprehensive report containing the results of the analyses of stomach contents, as well as detailed information concerning all American whaling operations, was prepared by the Bureau and forwarded through the State Department to the International Bureau for Whaling Statistics, Oslo, Norway.

The following tables show the extent of American participation in whaling during the 1937–38 season, as well as the total production of whale products by areas:

Whaling, 1937–38 [1]

OPERATING UNITS: BY AREAS

Area	Shore stations		Factory ships		Killer boats		Total persons employed
	Number	Persons employed	Number	Crew	Number	Crew	
Alaska	2	129			6	69	198
Antarctic			1	215	9	121	336
West Australia			2	326	15	198	524
California			1	31	2	22	53
Total	2	129	[2] 3	(3)	[2] 28	(3)	(3)

[1] Includes the operations of shore stations, factory ships, and killer boats licensed by the United States.

[2] Exclusive of duplication.

[3] Data on total persons employed, exclusive of duplication, not available.

NOTE.—Data on the operations of plants in Alaska and California are for the summer of 1937, while those for West Australia and the Antarctic are for the winter of 1937–38.

Whaling, 1937–38—Continued

CATCH: BY SPECIES AND AREAS

Area	Blue	Humpback	Sperm	Finback	Sei	Right	Total
	Number	*Number*	*Number*	*Number*	*Number*	*Number*	*Number*
Alaska	45	104	56	170	1		376
Antarctic	554	47		937		1	1,539
West Australia		3,242	3	1			3,246
California	8	3		14	12		37
Total	607	3,396	59	1,122	13	1	5,198

PRODUCTS MANUFACTURED: BY AREAS

Area	Oil	Meat		Meal	
		Fresh	Frozen	Meat	Bone
	Barrels	*Pounds*	*Pounds*	*Tons*	*Tons*
Alaska	15,668			770	435
Antarctic	111,444				
West Australia	125,044				
California	1,010	488,500	136,400		10
Total	253,166	488,500	136,400	770	445

OPERATING UNITS: ALASKA

Station, factory ship or killer boat	Type of license	Length, feet	Tonnage		Number men in crew
			Gross	Net	
Akutan	Shore station				70
Kodiak	Killer boat	100	148	101	11
Unimak	do	100	148	101	11
Paterson	do	87.3	120	81	12
Port Hobron	Shore station				59
Moran	Killer boat	87.3	120	77	11
Aberdeen	do	88	116	59	12
Tanginak	do	97.9	151	71	12
Total			803	490	198

OPERATING UNITS: ANTARCTIC

Station, factory ship or killer boat	Type of license	Length, feet	Gross	Net	Number men in crew
S. S. Ulysses	Factory ship	514	10,781	6,791	215
H. J Bull	Killer boat	151	569	204	16
Kos I	do	115.7	248	88	13
Kos II	do	115.7	248	88	13
Kos VI	do	115.7	248	88	13
Kos VII	do	115.7	248	88	13
Kos IX	do	115.1	248	84	13
Kos XI	do	119.7	258	93	13
Kos XIV	do	119.7	258	93	13
Kos XXIII	do	143.5	353	125	14
Total			13,459	7,742	336

Whaling, 1937–38—Continued

OPERATING UNITS: WEST AUSTRALIA

Station, factory ship or killer boat	Type of license	Length, feet	Tonnage		Number men in crew
			Gross	Net	
S. S. Frango	Factory ship	400.8	6,331	3,869	116
Thorfinn	Killer boat	115.7	249	84	13
Hauken	do	111.9	251	86	13
Femern	do	116.3	257	87	13
Gvas II	do	111.9	251	86	13
Pol I	do	111.8	205	67	13
Pol V	do	111.2	221	83	13
S. S. Ulysses	Factory ship	514	10,781	6,791	210
Kos I	Killer boat	115.7	248	88	13
Kos II	do	115.7	248	88	13
Kos IX	do	115.1	248	84	13
Hval I	do	109.8	221	77	13
Ross I	do	111.2	221	83	13
A-N I	do	109.4	223	76	13
A-N IV	do	110.1	223	81	13
A-N V	do	116.8	246	108	13
H. J. Bull [4]	do	151	569	204	16
Total			20,993	12,042	524

OPERATING UNITS: CALIFORNIA

Station, factory ship or killer boat	Type of license	Length, feet	Gross	Net	Number men in crew
S. S. California	Factory ship	194.7	953	475	31
Hawk	Killer boat	93.2	113	29	11
Port Saunders	do	92.7	112	12	11
Total			1,178	516	53

CATCH: ALASKA

Species	Male	Female	Total animals	Males per 100 females	Average size	
					Male	Female
	Number	*Number*	*Number*	*Number*	*Feet*	*Feet*
Blue	25	20	45	125	76.2	77.7
Humpback	51	53	104	96	38.8	40.3
Sperm	56		56		48	
Finback	95	75	170	127	57.8	58.5
Sei		1	1			48
Total	227	149	376			

CATCH: ANTARCTIC

Species	Male	Female	Total animals	Males per 100 females	Average size, male	Average size, female
Blue	276	278	554	99	78.7	81.4
Humpback	20	27	47	74	37.9	41.5
Finback	500	437	937	114	67.1	70.2
Right	[5] 1		1		45	
Total	797	742	1,539			

CATCH: WEST AUSTRALIA

Species	Male	Female	Total animals	Males per 100 females	Average size, male	Average size, female
Humpback	2,069	1,173	3,242	176	39.3	40.2
Sperm	3		3		46.5	
Finback	1		1		57	
Total	2,073	1,173	3,246			

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[4] Operated in Antarctic after close of season in West Australia.

[5] Taken for scientific purposes.

Whaling, 1937–38—Continued

CATCH: CALIFORNIA

Species	Male	Female	Total animals	Males per 100 females	Average size	
					Male	Female
	Number	*Number*	*Number*	*Number*	*Feet*	*Feet*
Blue	2	6	8	33	75	71.3
Humpback	1	2	3	50	45	41.5
Finback	5	9	14	55	56	55.7
Sei	5	7	12	71	45	47.2
Total	13	24	37			

CATCH: UNDER-SIZED HUMPBACK WHALES [6]

Whaling area	Male	Female	Total animals	Average size		Smallest killed	
				Male	Female	Male	Female
	Number	*Number*	*Number*	*Feet*	*Feet*	*Feet*	*Feet*
Alaska	8	4	12	32.6	32.2	29	30
Antarctic	3	1	4	32.3	30	30	30
West Australia	53	63	116	30.6	31.4	25	25
Total	64	68	132				

[6] In addition 7 under-sized finback whales consisting of 4 males, averaging 47.75 feet in length, and 3 females, averaging 47.66 feet in length, were taken in Alaska waters.

STATISTICAL SURVEY PROCEDURE

In order that those who use the statistical data contained in this and previous reports of the Division of Fishery Industries may be informed as to the source of the figures and methods for their collection, it has been deemed advisable to outline, in considerable detail, the statistical survey procedure followed by the Division. This procedure has been developed over a period of years, and changes in method have been made at times where such changes have appeared to work toward general improvement. While the surveys in the several sections are not made in the same manner, owing to varying facilities and records in different States, an attempt has been made to make the data collected by various methods in the producing areas comparable with respect to the same year as well as over a period of years. Throughout the entire plan it has been the intention to coordinate State and Federal fishery statistical work so that there will be as little duplication of effort as possible. The procedure will be discussed under two main heads—"Sectional surveys" and "Local and special surveys."

SECTIONAL SURVEYS

Statistical surveys of the fisheries and fishery industries of the various sections of the United States occupy by far the greatest part of the time of the statistical personnel of the Division. It is in the course of these surveys that the statistical and marketing agents visit the individual fishing localities of the various States to collect statistics of the volume of the catch of fish and its value, employment in fishing, quantity of fishing gear, number and classification of fishing and transporting craft, employment in wholesale and manufacturing establishments, and the volume and value of manufactured fishery products and byproducts. The various phases of these surveys are discussed in detail in the sections following.

History.—The first comprehensive statistical survey of the fisheries and fishery industries of the United States was made for the year 1880 by George Brown Goode, Assistant Director of the U. S. National Museum, and associates, with the cooperation of the Commissioner of Fisheries and the Superintendent of the Tenth Census. Data for specific fisheries, or restricted sections for years prior to 1880, were also collected in this early survey and recorded in Mr. Goode's reports. The survey for 1880, however, did not include the Mississippi River and tributaries. Periodic general surveys of a limited number of States or limited areas of the United States were made for various of the intervening years between 1880 and 1908 and from 1909 to 1928. In 1908 a survey of the entire United States was made. The next general survey of the entire United States was not made until 1931, although complete data for all sections, excluding the Mississippi River and tributaries, were collected for 1929 and 1930. Complete data on the catch and operating units for all sections, excluding the Mississippi River and its tributaries, were collected for 1932. In the latter survey, however, lack of sufficient funds prohibited collection of data on wholesale and manufacturing firms except those data collected as a part of the canned fishery products and byproducts surveys. Complete general canvasses were made of the Chesapeake and Pacific States for the years from 1933 to 1937, inclusive, the New England and Middle Atlantic States for 1933, 1935, and 1937, and the South Atlantic, Gulf, and Lake States for 1934, 1936, and 1937. Complete data on the catch of the fisheries of the Lake States were also collected for 1933 and 1935.

Following is a summary indicating the years for which statistics were collected on the fisheries and fishery industries in the various sections. Figures for the more recent years are available for free distribution from the Bureau in bulletin form, but figures for the earlier years are available only in the various printed reports of the Bureau. These reports are available for reference in the Bureau's library and at many public libraries.

In the New England States statistics on the catch of the marine fisheries, and those conducted in the coastal rivers and bays of these States, were collected for the years 1880, 1887, 1888, 1889, 1898, 1902, 1905, 1908, 1919, 1924, 1928, 1929, 1930, 1931, 1932, 1933, 1935, and 1937. For most of these years data on operating units and wholesale and manufacturing trade also were collected. In addition to the above, a partial statistical survey was made for the entire section in 1892; a partial survey of the fisheries in Maine, New Hampshire, and Massachusetts for the fiscal year 1897; the lobster fishery for 1900 and 1913; the oyster fishery for 1910; the shad and alewife fisheries for 1896; the menhaden industry for 1912; the fisheries of Massachusetts for 1879; and the fisheries of Connecticut for 1925 and 1926.

Statistics on the catch of the marine fisheries and those conducted in the coastal rivers and bays of the Middle Atlantic States were collected for the years 1880, 1887, 1888, 1889, 1890, 1891, 1897, 1898, 1901, 1904, 1908, 1921, 1926, 1929, 1930, 1931, 1932, 1933, 1935, and 1937. Data on operating units and wholesale and manufacturing trade also were collected for most of these years. In addition to these a statistical survey was made of the coastal fisheries of these States in 1915; catch in all States except New York, in 1892; the shad and alewife fisheries in 1896; the shad fisheries of the Delaware River in

1910; the shad fisheries of the Chesapeake Bay and tributaries in 1909; the menhaden industry in 1912; the lobster fisheries in 1900 and 1913; and the oyster fishery in 1911. The years for which statistics are available on the shad fishery of the Hudson River are given in the section entitled "Shad and alewife fisheries."

In the Chesapeake Bay States statistics on the catch of the marine fisheries and those conducted in coastal rivers and bays of these States were collected for the years 1880, 1887, 1888, 1890, 1891, 1897, 1901, 1904, 1908, 1920, 1925, and for all the years from 1929 to 1937, inclusive. Data on operating units and wholesale and manufacturing trade also were collected for most of these years. In addition to the above, a statistical survey was made of the crab fishery for 1915; the oyster fishery and menhaden industry for 1912; and the shad and alewife fisheries for 1896, 1909, and 1915. The years for which statistics of the shad and alewife fisheries of the Potomac River are available are given in the section entitled "Shad and alewife fisheries."

In the South Atlantic and Gulf States statistics on the catch of the marine fisheries and those conducted in the coastal rivers and bays of these States were collected for the years 1880, 1888, 1889, 1890, 1897, 1902, 1908, 1918, 1923, 1927, 1928, 1929, 1930, 1931, 1932, 1934, 1936, and 1937. Data on operating units and wholesale and manufacturing trade also were collected for most of these years. In addition to the above, a statistical survey was made of the fisheries of these States, excluding Florida and Alabama, for 1887; the shad fishery of the South Atlantic States for 1910; the shad and alewife fisheries of the South Atlantic States for 1896; the sturgeon fishery of Florida for 1900; the menhaden industry of the South Atlantic States for 1912; the shrimp fishery for 1916; the oyster fishery of the South Atlantic States for 1910; and the oyster fishery of the Gulf States for 1911.

In the Pacific Coast States statistics on the catch of the marine fisheries and those conducted in the coastal rivers and bays of these States were collected for the years 1880, 1888, 1892, 1895, 1899, 1904, 1908, 1915, and for all the years from 1922 to 1937, inclusive. These surveys have usually included data on operating units and wholesale and manufacturing trade. In addition to the above, statistics were obtained on the fisheries of California from 1918 to 1921, inclusive, and for the oyster fishery in 1912.

Statistics on the catch of the fisheries of the Great Lakes were collected for the years 1880, 1885, 1890, 1893, 1899, 1903, 1908, and for all the years from 1913 to 1937, inclusive. Statistics of the operating units and of the wholesale and manufacturing trade were collected for most of the years when canvasses were made from 1880 to 1908, and in 1917 and 1922 as well as in most of the years from 1926 to 1937, inclusive. In addition to the above a survey was made of the fisheries of Lake Ontario and of certain fisheries in other lakes for the year 1897.

Statistics of the catch of the fisheries of the Mississippi River and its tributaries were collected for the years 1894, 1899, 1903, 1908, 1922, and 1931. In addition, figures have been obtained of the fisheries of Lakes Pepin and Keokuk for the years 1914 and 1917 and the years from 1927 to 1937, inclusive, and of the fisheries of the Mississippi River between Lakes Pepin and Keokuk for the years 1929 to 1937, inclusive.

Statistics also were collected on the fisheries of certain interior waters, other than the fisheries of the Great Lakes and the Mississippi

River and its tributaries, for the years 1894, 1895, 1900, and 1902.

Statistical agents.—The statistics contained in this volume have been collected by a corps of trained statistical and marketing agents which comprises a part of the permanent staff of the Division of Fishery Industries of the Bureau. In the main they are college graduates and were recruited through civil-service examination. While in college, many of the men pursued biological or technical courses, largely in fishery work, which has especially suited them for coping with the many biological and technical aspects encountered in canvassing the fisheries. This training has been especially helpful in identification of the species which, because of the many local names applied to a particular species, causes considerable confusion.

Period covered.—In conducting the fishery statistical surveys, agents are dispatched to the districts to be surveyed as early in the calendar year as they can be spared from the tabulation and preparation for publication of their previous season's work. They collect statistics of fishery operations for the year preceding that in which they are working; and, since their field work occupies the greater part of the year, it is usually at least a year from the end of the calendar year for which they are collecting data until the figures are published. Most of the figures are collected for the calendar year. Where there are variations from this general practice, explanatory notes appear in the tables. Prior to 1930, statistics on the catch of oysters in the Atlantic and Gulf States were collected for the oyster season; that is, from September to April, inclusive. Beginning with 1930 and down to the present, they have been collected on the basis of the calendar year.

Scope.—The scope of the coastal statistical surveys includes canvasses of the commercial fisheries of the oceans and bays and of the coastal rivers as far inland as commercial fishing is important. This usually coincides with the range of commercial fishing for anadromous species. Statistics of the fisheries of the Mississippi River cover canvasses of the fisheries of the Mississippi River proper as well as all of its tributaries wherein commercial fishing for either fish, crustaceans, or mollusks is prosecuted. Statistics of the fisheries of the Great Lakes cover canvasses of the fisheries prosecuted in the Lakes proper, adjacent bays, and the international lakes of northern Minnesota, as well as rivers which sustain a commercial fishery having outlets into these waters. Surveys for statistics of the wholesale and manufacturing fishery industries cover such plants located in the coastal, river, and lake areas adjacent to the waters mentioned above.

Methods of collection.—Several methods for the collection of fishery statistics are employed, each of which has been carefully studied to obtain the best results with the available personnel and funds. In most instances the agents obtain lists of the names of fishing vessels, names or numbers of motorboats, and names of owners of these craft from local customs officials. Also it often is possible to obtain the names of licensed commercial fishermen and occasionally some statistics on the catch from several of the State fishery agencies; from other State, county, or city agencies; or from private organizations.

With such preliminary records as are available for their guidance the agents then visit each fishing community in their field unless their preliminary records are so complete that personal visits in some areas may be eliminated. While it is impossible for the few agents available for this work to interview each fisherman in a given locality, the more important ones are visited, and a sufficient number of those of lesser importance are interviewed to obtain reliable information on their production. In practice virtually all wholesale firms are visited, as well as captains of fishing vessels (those of 5 net tons or over), and also most of the more important inshore fishermen.

In the Great Lakes and Pacific Coast States such exceptional cooperation has been obtained in recent years from the State fishery agencies in the collection of statistics that only fragmentary surveys need be made by the Bureau's agents to obtain the necessary data. Also the State fishery agencies in Maryland and Virginia recently have developed very complete statistical systems which greatly facilitate the Bureau's canvasses in these States.

As regards the fisheries of the Great Lakes and international lakes of northern Minnesota, the Bureau obtains most of the catch statistics and usually the value of the catch direct from the records of the State fishery agency. To obtain data on the number of fishermen, boats, vessels, and gear, the Bureau conducts such personal surveys among the fishermen as may be necessary to supplement the State records.

Bureau agents are stationed at Seattle, Wash., and Terminal Island, Calif., who survey the fisheries of the Pacific Coast States. As a rule they obtain figures on the volume of the catch from the records of the several State fishery agencies. In most cases the value of the catch is derived from dealers' records and sometimes from estimates of prices. In Washington and Oregon the offshore fisheries are surveyed separately by the Bureau's agent to obtain data on the number of operating units, catch, and value of the catch. Statistics of the wholesale fishery industry for this section are obtained largely by personal interviews of the agents.

In the administration of the Alaska fisheries the Bureau obtains sworn statements concerning their activities from those prosecuting the fisheries in this area. These statements are compiled by the Alaska Division of this Bureau.

Statistics of the volume of the catch of fish of the Pacific Coast and Great Lakes States are usually shown in weights as landed, which may be in the round or dressed condition. Statistics on the volume of the catch of fish taken in the remainder of the United States are shown in round weight.

The figures in the tables for shellfish represent the weight of the meats in the case of univalve and bivalve mollusks and gastropods, and the round weight of crustaceans and such mollusks as squid and octopus.

Shore and vessel fisheries.—In general, statistics of the shore fisheries, as collected by the agents, include data on the number of casual and regular fishermen; number of motor and other fishing boats and accessory boats; kind and quantity of gear used, and the volume, value, and method of capture of each species caught by boats (for our purpose craft of less than 5 net tons capacity are called "boats") for each locality or group of localities. This method is not followed in some sections where the availability of data collected by the State fishery agencies obviates the necessity of detailed locality surveys.

Statistics of the vessel fisheries include data on the number of the crew, rig of vessels, net tonnage, kind and quantity of gear used, accessory boats carried, and volume, value, and method of capture of each species caught by each vessel (for our purpose craft of 5 net tons' capacity or more are called "vessels"). As in the shore fisheries, the availability of figures collected by State fishery agencies may eliminate the necessity of our agents collecting these data for each vessel.

Statistics on the quantity of gear operated indicate the maximum number of units fished at any one time during the year. Gear carried in reserve for replacement is not enumerated.

All persons engaged in commercial fishing operations are included as fishermen. For our purpose these have been divided into "regular" and "casual" fishermen. Regular fishermen are those who receive more than one-half of their annual income from fishing; and casual fishermen are those whose principal business is something other than fishing, and who receive less than one-half of their annual compensation from fishing.

The catch of fish is credited to the principal port of arrival and departure of the craft rather than its point of ownership, registration, documentation, or its port of landing. This accounts for catches of fish being shown in areas where they are not common, since fishing vessels frequently fish in areas far from their principal fishing port.

Wholesale and manufacturing trade.—All persons or firms engaged in the wholesale buying and selling of fishery products or who produce manufactured fishery products are surveyed under this title. Where the business of fishing and wholesaling or manufacturing is combined, that part of the business devoted to either of the latter two phases is included in the wholesale and manufacturing survey and the part devoted to fishing is included in the shore or vessel fisheries. If a wholesale business is conducted with no manufacturing and the business is so small that the full time of one man over the whole year or season is not required, it is then disregarded as a wholesale business. If commodities other than fishery products are handled, the persons engaged, and salaries and wages paid, are prorated; and only that part concerned with fishery products is included. If such a firm required less than the full time of one man over the whole year or season and if it does not manufacture, it is not included in the canvass. Retail firms that manufacture or whose wholesale business exceeds the retail part are included. Persons or firms engaged in the motortrucking of fishery products are included as wholesalers if they are engaged in wholesale buying and selling.

Buyers for a central firm are not canvassed as wholesale dealers unless they ship direct to the firm's customers from the buying point.

Fishermen or fishing concerns, except manufacturers, who do not buy fishery products are not included under this heading except that oyster-shucking firms are included provided shuckers are employed, and irrespective of whether all or part of the oysters used are taken from the firms' privately owned beds.

Manufacturing concerns include those which prepare packaged fishery products; salted, spiced, smoked, dried, or otherwise cured fishery products; canned fishery products; or fishery byproducts.

Fishermen who manufacture are surveyed to obtain the number of persons so employed and the volume and value of the products prepared.

In collecting statistics of manufacturing firms, the agents obtain data on the production for each plant in producing areas of products as marketed by the plant. Such products are usually "final" and in form for consumption; however, the products may be "intermediate" and require further processing before reaching the consumer markets. An outstanding example of an intermediate product is green-salted groundfish, which almost invariably is further processed before final marketing. In reviewing the statistics of manufactured products it should be observed that intermediate products are not shown where they are prepared to the final stage in the original plant. An exception to this rule, however, is in the case of the production of mild-cured salmon, which, on account of its importance, is shown in its entirety, whether further processed in the producing plant or not. In this connection it should also be stated that several of the byproducts for which statistics are shown may be intermediate, and the plants producing the final products are not surveyed by this Bureau. Outstanding among such products are marine-animal oils, scrap, and meal.

Statistics of persons engaged in wholesale and manufacturing establishments are reported in three groups: Proprietors, salaried employees, and wage earners.

Proprietors represent those persons who devote their time to the conduct of the enterprise and receive their compensation in the form of profits. Managers of branch houses are not classified as proprietors.

Salaried employees usually include those persons paid by the week or month, while wage earners usually consist of those paid on a per diem or piece-work basis. This, however, is not true in all cases, since the distinction between these two classes depends primarily on the character of the work done rather than the unit of time employed for calculating rates of pay. In general, office employees are classified as salaried employees. Other employees, including plant workmen, are classed as wage earners. Plant foremen or superintendents are classified as salaried employees unless they are principally engaged in manual labor; in which case they are classified as wage earners. Active officers of corporations are classified as salaried employees. Statistics of wage earners are shown in two forms: The average number employed during the operating season; and the average number employed during the year (the monthly average for the year).

Transporting trade.—Statistics are obtained on the number of the crew and number of boats and vessels engaged in transporting fishery products from the fishing grounds to port or from port to port. However, if a craft is engaged in catching fish at any time of the year it is included as a fishing craft rather than as a transporter.

Publication of data.—Statistics of employment in the fisheries, craft and gear engaged, catch and value of catch, and certain data on industries related to the fisheries are summarized and published in bulletin form as soon as possible after completion of each survey. Later the figures in more detail are included in the annual reports of the Division.

LOCAL AND SPECIAL SURVEYS

Landings at certain important United States ports.—Statistics of the lands of aquatic products at the principal New England ports (Boston and Gloucester, Mass., and Portland, Maine) are obtained in a similar manner. An agent is permanently stationed at Boston, Mass., and another is assigned to the ports of Gloucester, Mass., and Portland, Maine. Their duties include the obtaining of figures daily on the quantity of fish landed by each fishing vessel, the value of such fish landed, information concerning the date of departure and arrival of the vessel, and they also indicate the grounds from which the fish were taken and gear used in their capture. These data are forwarded to the Bureau, where compilations are made. Products of American fisheries received duty free at Boston and Gloucester, Mass., and Portland, Maine, from the treaty coasts of Newfoundland, Magdalen Islands, and Labrador are included in the landings at these ports; however, they are not included in the catch in sectional fishery surveys of the New England States unless they represent a catch by United States vessels. Statistics of these landings are released monthly and annually in bulletin form and detailed data are published in the annual reports of this Division. Data on the landings at Boston, and Gloucester, Mass., have been collected annually since 1893, and those for Portland, Maine, since June 1915. Some data are available for Boston and Gloucester prior to 1893.

Statistics of the landings of fish at Seattle, Wash., are collected by the Bureau's agent in that city. Landings are classified as those made by United States fishing vessels and those received by Seattle wholesale dealers. The landings credited to United States fishing vessels are made by vessels operating distinctly as primary fishing units, usually in the offshore fisheries, while those credited as received by wholesale dealers are usually products of the shore fisheries collected mainly from points in Puget Sound and do not include fish received from Alaska or Canada, or landings made by the halibut fleet. Statistics of these landings at Seattle are released monthly and annually in bulletin form and detailed data are published in the annual reports of this Division. Statistics of the landings by fishing vessels at Seattle have been collected since June 1915 and certain data on products received by Seattle wholesale dealers since December 1915.

Atlantic mackerel fishery.—Statistics on the catch by the Atlantic mackerel fleet are obtained by combining the figures of mackerel landed at Boston and Gloucester, Mass., and Portland, Maine, with those obtained by Bureau agents, who in recent years have been stationed at other Atlantic ports where mackerel are landed. These agents obtain data on the volume of mackerel landed in a manner similar to that used to obtain figures on the landings by fishing vessels at the three New England ports. The figures include only the catches made by purse seine and drift gill net craft and are not complete for craft of under 5 net tons' capacity using this type of gear. Statistics of this fishery appear only in the annual reports of this Division, although the landings at the principal New England ports appear in the monthly and annual bulletins published for those ports. Statistics of this fishery are available from 1905 to 1937, inclusive.

Shad and alewife fisheries.—Owing to the importance of the Hudson and Potomac Rivers in the production of shad, surveys for statistics of the catch, value of the catch, and operating units are made annually. On the Potomac River similar statistics also are obtained for the alewife fishery. Much of the data required for these surveys are available from the State fishery agencies.

Statistics of the shad and alewife fisheries are not published separately in bulletin form, but a summary of the year's activities is published in the annual reports of the Division.

Statistics of the shad fishery of the Hudson River are available for 1896, 1897, 1898, 1901, 1904, 1910, and from 1915 to 1937, inclusive, while data for the shad fishery of the Potomac River are available for 1896, 1901, 1904, 1909, 1915, and from 1919 to 1937, inclusive. Statistics of the alewife fishery of the Potomac River are available for 1896, 1909, 1915, and from 1919 to 1937, inclusive.

Pacific halibut fishery.—Statistics of the Pacific halibut fishery are obtained by the Bureau's agent in Seattle, aided by Bureau representatives in Alaska and the International Fisheries Commission. The fleet classification has been arbitrarily applied by including in the "Washington fleet" all United States and Alaska vessels that land more than half of their catch in that State. All other United States and Alaska vessels of the halibut fleet are included in the "Alaska fleet." Monthly and annual statistical bulletins are available on this fishery, being published along with the statistics of the landings of fishery products at Seattle, Wash., and detailed statistics are published in the annual reports of the Division. Statistics of the landings of halibut at Pacific coast ports have been collected since 1925.

Canned fishery products and byproducts.—Beginning in 1921, the Bureau has made annual surveys for statistics of the canned fishery products and byproducts industries of every section. These are begun the first week in January of each year for statistics of the production in the preceding year. The surveys usually occupy 6 to 9 weeks' time. During this period the Bureau obtains by mail, so far as possible, the production of canned fishery products or byproducts from each plant in the United States engaged in this business. Where it is impossible to obtain reports by mail the report is obtained by personal visit by the Bureau's agents. They obtain statistics of the production and value of the production for each commodity. Statistics of the canned fishery products and byproducts produced in Alaska are received on the same statements obtained by the Bureau that include statistics of general fishery operations.

An annual statistical bulletin is issued on this trade, and detailed statistics of the output are published in the annual reports of the Division. In addition to the data obtained on the output of these products annually since 1921, data also usually were obtained prior to 1921 for the years the various sections were surveyed.

The value shown for canned products constitutes the gross amount received by the packer at the production point, no deductions being made for commission or expenses.

Packaged-fish trade.—Complete statistics of the annual production and value of fish packaged in the United States are obtained as a part of the survey for the statistics of the canned fishery products and byproducts industries. These statistics are released in bulletin form annually and detailed statistics are published in the annual reports of the Division. Statistics of the production of packaged fish are available for 1926 and the years from 1928 to 1937, inclusive.

Cold-storage holdings of fish.—An arrangement has been made with the Bureau of Agricultural Economics, Department of Agriculture, whereby statistics of the cold-storage holdings of the various species of fish, by sections of the United States are furnished to this Bureau monthly. Included with statistics of the holdings are statements of the quantity of the various species of fish frozen and also the holdings of certain cured fish. Bulletins showing these statistics are issued monthly as well as annually, and detailed statistics are published in the annual reports of this Division. Statistics of cold-storage holdings of fishery products have been published since 1917 and data on quantities of fish frozen, for the years from 1920 to 1925, inclusive, and from 1928 to 1937, inclusive.

Sponge market, Tarpon Springs.—A large proportion of the total output of sponges in Florida is handled through the sponge exchange at Tarpon Springs. In view of this, the Bureau has obtained from a representative of the exchange annual statistics of the quantity and value of the sponges, by variety classifications, handled through it annually. Statistics of the quantity of sponges handled through the exchange are not published in bulletin form, but a summary of the year's activities is published in the annual reports of this Division. Statistics of the transactions on the sponge exchange are available for 1913, 1914, and for the years from 1917 to 1937, inclusive.

Foreign fishery trade.—Statistics of the foreign fishery trade are obtained from compilations made by the Bureau of Foreign and Domestic Commerce, Department of Commerce. Statistics of all known fishery products imported or exported have been assembled in one table and published annually in the reports of the Division in recent years. For earlier years they are available in the reports of the Bureau of Foreign and Domestic Commerce, the Bureau of Statistics, the Department of Commerce and Labor, or the Treasury Department.

PRACTICES AND TERMS

Certain practices and terms of importance used in the compilation of fishery statistics are explained below.

Days absent.—In computing "days absent" for vessels landing fares at the various ports, the day of departure and the day of arrival are included; thus a vessel leaving port on the 8th of the month and returning on the 15th of the month will be shown as being absent 8 days.

Operating units.—Operating units as referred to in this document include persons engaged in the fisheries, and fishing craft and gear employed.

Vessel.—The term "vessel" refers to a craft having a capacity of 5 net tons or more.

Boat.—The term "boat" refers to a craft having a capacity of less than 5 net tons.

Incidental catch.—The term "incidental catch" refers to the catch of certain species by a type of gear which ordinarily does not capture such species.

Percentages.—Percentages are usually shown as whole numbers. Fractions of percents are dropped if less than five-tenths, and the percentage is raised to the next higher integer if the fraction is greater than five-tenths. If the fraction is exactly five-tenths, the integer is raised or lowered to make it an even number.

Converting.—Many of the figures shown in the statistical tables published herewith have been converted to thousands of pounds or dollars. In making these conversions the largest number from which a group of items is computed is raised or lowered to the nearest thousands place. If the number ends in an even 500, the thousands integer is raised or lowered to make it an even number. The individual items are changed to conform to the total thus obtained.

Confidential data.—The statistical data collected by the Division are confidential and are not released except by approval of the Washington office. Statistics of production of wholesale and manufacturing firms are published only for commodities or geographical areas where the production of three or more concerns may be grouped. Every effort is made to publish only those figures which will not reveal individual enterprise.

CONVERSION FACTORS

It is the policy of the Bureau to show the detailed catch figures of all products in pounds for the sake of uniformity and for purposes of comparison. Following such a policy presents certain problems. In the case of fish there is little difficulty since in very rare instances are such products reported in units of measure other than pounds. For shellfish, however, the units of measure may be bushels, sacks, barrels, or thousands of shellfish, gallons of meats, etc. These many units make standardization difficult, but when coupled with the wide variation in the requirements or definition of some of these units in the various States the problem becomes even more complex.

All bivalve mollusks are reported in pounds of meats in the detailed catch tables presented in this report. In addition, there are included supplementary tables for most of the sections, which give data on the production in bushels. These supplementary tables also give the production of certain other shellfish, such as crabs, in number.

Oysters.—Probably the greatest problem in presentation of fishery statistics in uniform units of measure is in the case of oysters. Usually the production of oysters on the Atlantic and Gulf coasts is reported to Bureau agents in bushels; and prior to the data obtained for the year 1930 conversion from bushels to pounds of meats was effected on the basis of a uniform yield of 7 pounds of meats to the bushel. However, more recent investigations have shown considerable variation from this figure. There follows a table which gives the results of these studies of the measures used for oysters in the various States and of the average yields per bushel. This table presents the factors that have been used in the oyster statistics given in this report.

Measures and yields of oysters

State	Capacity of State bushel	Variation from U. S. standard bushel		Market oysters	
				Yield per State bushel	Yield per standard bushel
	Cubic inches	*Cubic inches*	*Percent*	*Pounds of meats*	*Pounds of meats*
Massachusetts	2, 150. 4			6. 57	6. 57
Rhode Island	2, 150. 4			7. 05	7. 05
Connecticut	2, 150. 4			7. 70	7. 70
New York	2, 150. 4			7. 00	7. 00
New Jersey	2, 257. 3	+106. 9	+5. 0	6. 05	5. 76
Delaware	2, 257. 3	+106. 9	+5. 0	7. 00	6. 67
Maryland	2, 801. 5	+651. 1	+30. 3	5. 98	4. 59
Virginia	3, 003. 4	+853. 0	+39. 7	6. 06	4. 34
North Carolina	2, 801. 9	+651. 5	+30. 3	5. 52	4. 24
South Carolina	4, 071. 5	+1, 921. 1	+89. 3	5. 87	3. 10
Georgia	5, 343. 9	+3, 193. 5	+148. 5	6. 21	2. 50
Florida	3, 214. 1	+1, 063. 7	+49. 4	5. 49	3. 67
Alabama	2, 826. 2	+675. 8	+31. 4	5. 13	3. 90
Mississippi	2, 826. 2	+675. 8	+31. 4	4. 95	3. 78
Louisiana	2, 148. 4	−2. 0	−. 1	4. 09	4. 09
Texas	2, 700. 0	+549. 6	+25. 6	5. 64	4. 49

Other mollusks.—The following table shows the conversion factors for various mollusks, other than oysters, used in this report:

Average yields of certain mollusks in pounds of meats per State bushel

State	Clams, hard	Clams, soft	Clams, surf	Clams, razor	Mussels, sea	Periwinkles and cockles	Scallops, bay	Scallops, sea	Conchs
Maine	11	15	--------	--------	12	18	6	6	--------
New Hampshire	--------	15	--------	--------	--------	--------	--------	--------	--------
Massachusetts	11.01	14.15	17	30.2	--------	18	6.07	6	--------
Rhode Island	12	20	12	--------	13	18	6.19	6	--------
Connecticut	12.12	20	--------	--------	--------	--------	6.2	--------	19.75
New York	8	16	12	--------	10	--------	5	6	18
New Jersey	8.07	20	17.8	--------	--------	--------	--------	6	--------
Delaware	10	--------	--------	--------	12	--------	--------	--------	--------
Maryland	8	--------	--------	--------	--------	--------	--------	--------	--------
Virginia	8	--------	--------	--------	12	--------	--------	6	--------
North Carolina	8	--------	--------	--------	--------	--------	7.68	--------	--------
South Carolina	8	--------	--------	--------	--------	--------	--------	--------	--------
Florida	8	--------	--------	--------	--------	--------	4.17	--------	--------

Other conversion factors.—The principal other conversion factors that have been used in this report are as follows:

Alewives	To convert number of fish to weight in pounds, multiply by 0.4.
Cod, large, salted	To convert to fresh-gutted weight, multiply by 1.90.
Cod, market, salted	To convert to fresh-gutted weight, multiply by 1.94.
Cod, scrod, salted	To convert to fresh-gutted weight, multiply by 1.98.
Crustaceans:	
Crabs, soft and peelers (Connecticut, Rhode Island, New York, Delaware, Maryland, and Virginia).	To convert number of crabs to weight in pounds, divide by 4.
Crabs, soft and peelers (North Carolina).	To convert number of crabs to weight in pounds, divide by 7.
Crabs, soft and peelers (Louisiana).	To convert number of crabs to weight in pounds, divide by 2.96.
Crabs, soft and peelers (other States).	To convert number of crabs to weight in pounds, divide by 3.
Crabs, hard (Maine)	To convert number of crabs to weight in pounds, divide by 3.32.
Crabs, hard (Massachusetts)	To convert number of crabs to weight in pounds, divide by 4.
Crabs, hard (Connecticut)	To convert number of crabs to weight in pounds, divide by 2.8.
Crabs, hard (North Carolina).	To convert number of crabs to weight in pounds, divide by 2.95.
Crabs, hard (South Carolina).	To convert number of crabs to weight in pounds, divide by 2.
Crabs, hard (Florida)	To convert number of crabs to weight in pounds, divide by 2.08.
Crabs, hard (Alabama and Georgia).	To convert number of crabs to weight in pounds, divide by 2.1.
Crabs, hard (Mississippi)	To convert number of crabs to weight in pounds, divide by 2.09.
Crabs, hard (Louisiana)	To convert number of crabs to weight in pounds, divide by 2.16.
Crabs, hard (Texas)	To convert number of crabs to weight in pounds, divide by 1.96.
Crabs, hard (other Atlantic Coast States).	To convert number of crabs to weight in pounds, divide by 3.

Crustaceans—Continued	
Crabs, rock	To convert number of crabs to weight in pounds, divide by 10.
Crabs, stone	To convert number of crabs to weight in pounds, multiply by 1.2.
Cusk, salted	To convert to fresh-gutted weight, multiply by 1.90.
Haddock, large, salted	To convert to fresh-gutted weight, multiply by 2.06.
Haddock, scrod, salted	To convert to fresh-gutted weight, multiply by 2.10.
Hake, large, salted	To convert to fresh-gutted weight, multiply by 1.90.
Hake, small, salted	To convert to fresh-gutted weight, multiply by 1.98.
Halibut, salted	To convert to fresh-gutted weight, multiply by 2.
Herring, salted	To convert to round weight, multiply by 1.50.
Mackerel, salted	To convert to round weight, multiply by 1.35.
Menhaden	To convert number of fish to weight in pounds, multiply by 0.6.
Pollock, salted	To convert to fresh-gutted weight, multiply by 1.90.
Sponges, dried (Florida):	
Large wool	To convert number of bunches to weight in pounds, multiply by 7.
Medium and small wool	To convert number of bunches to weight in pounds, multiply by 3.
Wool rags	To convert number of bunches to weight in pounds, multiply by 4.5
Grass	To convert number of bunches to weight in pounds, multiply by 1.5.
Wire and yellow	To convert number of bunches to weight in pounds, multiply by 2.

COMMON AND SCIENTIFIC NAMES OF FISHERY PRODUCTS

In order to prevent misunderstanding in the use of common names employed in the tables and discussions, the following list of common and scientific names is given:

Common and scientific names of the commercial fishery products caught in the United States and Alaska

Common name as shown in Bureau reports	Other common names	Scientific names
Albacore	(See tuna)	*Germo alalunga.*
Alewife	Branch herring, wall-eyed or big-eyed herring.	*Pomolobus pseudoharengus.*
	Blueback, glut herring	*Pomolobus æstivalis.*
Amberjack		Seriola species.
Anchovy		*Engraulis mordax.* *Anchoviella delicatissima.* *Anchoviella compressa.*
Angelfish		*Pomacanthus arcuatus.* *Holacanthus isabelita.*
Barracuda		*Sphyraena argentea.*
Black bass	Smallmouth bass	*Micropterus dolomieu.*
	Largemouth bass	*Micropterus salmoides.*
Bluefish	Tailor	*Pomatomus saltatrix.*
Blue pike	Pike perch, blue pickerel (Canada)	*Stizostedion glaucum.*
Blue runner or hardtail	Runner	*Caranx crysos.*
Bonito		*Sarda sarda.* *Sarda chiliensis.*
Bowfin		*Amia calva.*
Buffalofish		Ictiobus species.
Butterfish		*Poronotus triacanthus.*
Burbot	Lawyer, ling	*Lota maculosa.*
Cabio	Coalfish, crab eater, cobia	*Rachycentron canadus.*
Cabrilla	Rock bass	*Epinephelus analogus* (Pacific coast).

Common and scientific names of the commercial fishery products caught in the United States and Alaska—Continued

Common name as shown in Bureau reports	Other common names	Scientific names
Carp	German carp	*Cyprinus carpio.*
Catfish and bullheads		Ameiurus species. Ictalurus species. *Leptops olivaris.*
Cero	Painted mackerel	*Scomberomorus regalis.*
Chub	Tullibee in Canada; longjaw, bluefin, blackfin in United States.	All *Leuchichthys* except *artedi* (in Great Lakes).
Cigarfish	Scad	*Decapterus punctatus.*
Cisco	Herring in Canada	*Leucichthys artedi* (Lake Erie only).
Cod	Codfish	*Gadus macrocephalus* (Pacific coast). *Gadus callarias* (Atlantic coast).
Crappie	White crappie Black crappie, strawberry bass, calico bass.	*Pomoxis annularis.* *Pomoxis sparoides.*
Crevalle		*Caranx hippos.*
Croaker	Crocus, hardhead	*Micropogon undulatus.*
Cunner	Chogset, blue perch, bergall	*Tautogolabrus adspersus.*
Cusk		*Brosme brosme.*
Dolly Varden trout	Salmon trout, bull trout	*Salvelinus parkei.*
Dolphin		*Coryphaena hippurus.*
Drum:		
Black		*Pogonias cromis.*
Red	Channel bass, redfish, spotted bass	*Sciaenops ocellatus.*
Eel:		
Common		*Anguilla rostrata.*
Conger		*Leptocephalus conger.*
Flounder:		
Gray sole		*Glyptocephalus cynoglossus.*
Lemon sole		*Pseudopleuronectes dignabilis.*
Yellowtail and dab		*Limanda ferruginea.* *Hippoglossoides platessoides.*
Blackback		*Pseudopleuronectes americanus.*
Fluke		*Paralichthys dentatus.*
"Sole"		Pleuronectidae species (Pacific coast).
California halibut		*Paralichthys californicus.*
Unclassified		Pleuronectidae species.
Flyingfish		*Cypsilurus californicus.*
Frigate mackerel	"Boo Hoo"	*Auxis thazard.*
Garfish		Tylosurus species.
Gizzard shad	Nanny shad, mud shad	*Dorosoma cepedianum.*
Goldfish	Sand perch	*Carassius auratus.*
Goosefish	Allmouth	*Lophius piscatorius.*
Grayfish	Dogfish Spiny dog Smooth dog	*Squalus sucklii* (Pacific coast). *Squalus acanthias.* *Mustelus mustelus.*
Grouper	"Sea bass"	Ephinephelus species. Myceteroperca species.
Grunt	Margatefish, sailors choice (Key West).	Haemulon species.
Haddock		*Melanogrammus aeglefinus.*
Hake	Squirrel hake, Boston hake, ling, black hake, mud hake. Merluccio	Urophycis species (Atlantic coast). *Merluccius productus* (Pacific coast).
Halibut		*Hippoglossus hippoglossus.*
Hardhead		*Orthodon microlepidotus* (Pacific coast).
Harvestfish	Starfish, dollarfish, pappyfish, butterfish (N. C.).	*Peprilus alepidotus.*
Herring:		
Lake	Herring	*Leucichthys artedi* (Great Lakes, except Erie).
Round		*Etrumeus sadina.*
Sea		*Clupea harengus* (Atlantic coast). *Clupea pallasii* (Pacific coast).
Herring smelt	Sea smelt	*Argentina silus.*
Hickory shad	Tailor shad, skip	*Pomolobus mediocris.*
Hogchoker		*Achirus fasciatus.*
Hogfish	Capitaine. perro perro	*Lachnolaimus maximus* (Florida).
Horse mackerel	Pacific Atlantic—(See tuna.)	*Trachurus symmetricus.*
Jewfish		*Promicrops itaiara.*
Kingfish	King mackerel, cerro Little roncador, croaker	*Scomberomorus cavalla* (Atlantic coast). *Scomberomorus regalis* (Atlantic coast). *Genyonemus lineatus* (California).
King whiting	Northern whiting, kingfish, sea mink	Menticirrhus species.
Lake trout		*Cristivomer namaycush.*
Lamprey		*Petromyzon marinus.*
Launce	Sand eel, lant, sand launce	*Ammodytes americanus.*
"Lingcod"	Cultus cod, blue cod, buffalo cod, ling	*Ophiodon elongatus.*
Mackerel		*Scomber scombrus* (Atlantic coast). *Scomber diego* (Pacific coast).

Common and scientific names of the commercial fishery products caught in the United States and Alaska—Continued

Common name as shown in Bureau reports	Other common names	Scientific names
Marlin	Spearfish	*Tetrapturus mitsukurii* (Pacific coast).
Menhaden	Mossbunker, pogy, fatback	*Brevoortia tyrannus.*
Minnow		Cyprinidae species.
Mojarra		Gerridae species.
Mooneye	Toothed herring	Hiodon species.
Moonfish		*Vomer setipinnis.* *Selene vomer.*
Mullet	Jumping mullet	Mugil species.
Mummichog	Mayfish, killifish	Fundulus species.
Muttonfish		*Lutianus analis.*
Paddlefish	Spoonbill cat	*Polyodon spathula.*
Perch (California)	See surffishes.	
Permit	See pompano.	
Pigfish	Hogfish (N. C.)	*Orthopristis chrysopterus.*
Pike or pickerel	Great Lakes pike	*Esox reticulatus.* *Esox lucius.*
Pilchard	Sardine	*Sardina caerulea.*
Pilotfish		*Naucrates ductor.* Seriola species.
Pinfish	Bream, salt-water bream	*Lagodon rhomboides.*
Pollock		*Pollachius virens.*
Pompano	Permit, great pompano	*Trachinotus goodei.*
		Trachinotus species (Atlantic coast).
		Palometa simillima (Pacific coast).
Porgy	Porgee	Calamus species.
Porkfish	Sisi	*Anisotremus virginicus.*
Quillback	Spearfish or skimfish	Carpiodes species.
Roach	Golden Shiner	*Notemigonus crysoleucas.*
Rock bass	Redeye, goggle-eye	*Ambloplites rupestris* (Mississippi River to Atlantic seaboard).
	Groupers	*Paralabrax nebulifer* (Pacific coast).
Rockfish	Rock cod	Sebestodes species (Pacific coast).
Rosefish		*Sebastes marinus.*
Rudderfish	Blue bass, greenfish	*Girella nigricans* (Pacific coast).
	Halfmoon	*Medialuna californiensis* (Pacific coast).
Sablefish	Black cod	*Anoplopoma fimbria.*
Salmon:		
Atlantic		*Salmo salar* (Atlantic coast).
Pacific:		
Blueback, red or sockeye.		*Oncorhynchus nerka.*
Chinook or king	Tyee, spring	*Oncorhynchus tschawytscha.*
Chum or keta	Dog salmon	*Oncorhynchus keta.*
Humpback or pink.		*Oncorhynchus gorbuscha.*
Silver or coho		*Oncorhynchus kisutch.*
Steelhead	(See steelhead trout.)	
Sauger	Sand pike	*Stizostedion canadense.*
Sculpin		Cottidae species.
Scup	Paugy or porgy, fair maid	Stenotomus species.
Sea bass	Black jewfish or black sea bass	*Stereolepis gigas* (Pacific coast).
	Black sea bass, blackfish	*Centropristes striatus* (Atlantic coast).
	White sea bass	*Cynoscion nobilis* (Pacific coast).
Sea catfish	Gafftopsail	*Bagre marina.*
Sea robin		Prionotus species.
Shad	American shad	*Alosa sapidissima.*
Shark		Carcharodon species: Mustelus species; Carcharhinus species: Sphyrna species.
Sheepshead		*Archosargus probatocephalus* (Atlantic coast).
		Archosargus unimaculatus (Florida).
	Drum, fresh water	*Aplodinotus grunniens* (fresh water).
Sheepshead, California	Redfish, fathead	*Pimelometopon pulcher.*
Silver perch	Sand perch	*Bairdiella chrysura.*
Silverside	Spearing	Menidia species.
Skate		Raja species.
Skipper	Billfish	*Scomberesox saurus.*
Smelt		*Osmerus mordax* (Atlantic coast).
		Argentinidae species (Pacific coast).
	Eulachon	*Thaleichthys pacificus.*
Snapper:		
Mangrove	Gray snapper	*Lutianus griseus.*
Red		*Lutianus blackfordii.*
Snook	Robalo, sergeantfish	*Centropomus undecimalis.*
Spadefish	Porgy (N. C.)	*Chætodipterus faber.*
Spanish mackerel		*Scomberomorus maculatus.*
Splittail		*Pogonichthys macrolepidotus.*
Spot	Lafayette, goody	*Leiostomus xanthurus.*
Squawfish	Sacramento pike	*Ptychocheilus grandis.*

Common and scientific names of the commercial fishery products caught in the United States and Alaska—Continued

Common name as shown in Bureau reports	Other common names	Scientific names
Squeteague:		
Gray	Gray trout, weakfish, trout	*Cynoscion regalis.*
Spotted	Spotted weakfish, spotted trout	*Cynoscion nebulosus.*
White	Sand trout	*Cynoscion arenarius.*
Squirrel hake	(See hake.)	
Steelhead trout	Salmon trout	*Salmo gairdnerii.*
Striped bass	Rockfish, rock	*Roccus saxatilis.*
Sturgeon		Acipenser species.
Sturgeon, shovelnose		*Scaphirhynchus platorynchus.*
Sucker	Fresh-water mullet	Catostomidae species.
Sunfish	Bream, perch	Centrarchidae species.
Surffish	Perch	Embiotocidae species.
Swellfish	Puffer, swell toad, balloonfish, globefish.	*Spheroides maculatus.*
Swordfish		*Xiphias gladius.*
Tautog	Blackfish, oysterfish	*Tautoga onitis.*
Tenpounder	Elops, big-eyed herring	*Elops saurus.*
Thimble-eyed mackerel	Bullseye	*Scomber colias.*
Tilefish		*Lopholatilus chamæleonticeps.*
Tomcod		*Microgadus tomcod* (Atlantic coast). *Microgadus proximus* (Pacific coast).
Tripletail		*Lobotes surniamensis.*
Tullibee	(See chub.)	
Tuna and tunalike fishes:		
Albacore	Longfin tuna	*Germo alalunga.*
Bluefin	Tuna	*Thunnus saliens.* *Thunnus thynnus.* *Thunnus secundodorsalis.*
Bonito		*Sarda sarda* (Atlantic coast). *Sarda chiliensis* (Pacific coast).
Skipjack	Striped tuna	*Euthynnus pelayms.*
Yellowfin		*Neothunnus macropterus.*
Turbot	Greenland halibut American turbot, triggerfish	*Reinhardtius hippoglossoides* (off New England.) *Balistes carolinensis* (off Florida).
Wahoo		*Acanthocybium solandri.*
White bass	White lake bass	*Roccus chrysops*
Whitebait	Small fry of several species.	
Whitefish:		
Common		*Coregonus clupeiformis* (Great Lakes). *Caulolatilus princeps* (Pacific coast).
Menominee		*Prosopium quadrilaterale.*
White perch		*Morone americana* (Atlantic coast).
Whiting	Silver hake	*Merluccius bilinearis.*
Wolffish		*Anarhichas lupus.*
Yellow perch		*Perca flavescens.*
Yellow pike	Wall-eyed pike, pike perch, dore	*Stizostedion vitreum.*
Yellowtail		*Ocyurus chrysurus* (Atlantic coast). *Seriola dorsalis* (Pacific coast).
Crab:		
Hard	Hard-shell crab, blue crab Dungeness crab Rock crab, hard crab	*Callinectes sapidus.* *Cancer magister* (Pacific coast). *Cancer irroratus* (Atlantic coast).
Soft and peelers	Soft-shelled crab, blue crab	*Callinectes sapidus.*
King		*Paralithodes camtschatica* (Pacific coast).
King or horsehoe		*Limulus* (Atlantic coast).
Rock		*Cancer irroratus.*
Stone		*Menippi mercenaria.*
Crawfish:		
Fresh water	Crayfish	Cambarus species (Atlantic coast). Astacus species (Pacific coast).
Sea	Rock lobster, crayfish	*Panulirus argus* (Atlantic coast). *Panulirus interruptus* (Pacific coast).
Lobster:		
Common		*Homarus americanus* (Atlantic coast).
Spiny	(See sea crawfish.)	
Shrimp		*Peneus setiferus.* *Peneus brasiliensis* (Atlantic and Gulf coasts). Pandalus species (Pacific coast). Pandalopsis species (Pacific coast). Crangon species (Pacific coast).
Abalone		Halotis species.

Common and scientific names of the commercial fishery products caught in the United States and Alaska—Continued

Common name as shown in Bureau reports	Other common names	Scientific names
Clam:		
Cockle		*Cardium corbis* (Pacific coast).
Hard	Butter	*Saxidomus nuttall.*
	Round clam, cherrystone, quahog, little neck.	*Tirela stultorum* (Pacific coast). *Venus mercenaria* (Atlantic coast). *Venus mortoni* (Florida coast).
Pismo		*Tivela stultorum* (Pacific coast).
Razor		Ensis species (Atlantic coast). *Siliqua patula* (Pacific coast).
Soft	Soft shell clam, sand clam, nannynose, maninose.	*Mya arenaria.*
Surf	Skimmer	*Mactra solidissimo.*
Cockle	Moonshell	*Natica heros* (Atlantic coast).
Conch		Strombus species. Busycon species.
Coquina	Pompano shells	*Donax variabilis.*
Mussel:		
Sea		*Mytilus californianus* (Pacific coast). *Mytilus edulis.*
Fresh water		Quadrula species. Lampsilis species. Unio species. Symphynota species.
Octopus		*Octopus punctatus* (Pacific coast).
Oyster:		
Eastern		*Ostrea virginica.*
Western	Olympia	*Ostrea lurida* (Pacific coast).
Japanese (introduced).	Pacific	*Ostrea gigas.*
Periwinkle		Littorina species.
Scallop:		
Bay		*Pecten irradians* (Atlantic coast). *Pecten aequisulcatus* (Pacific coast).
Sea		*Pecten magellanicus.*
Squid		*Loligo opalescens* (Pacific coast). *Loligo pealei* (Atlantic coast).
Sea urchin		Echinoidae class.
Starfish		Asteroidae class.
Terrapin	Diamond-back terrapin	Malaclemmys species.
Turtle:		
Green		*Chelonia mydas.*
Loggerhead		*Thalassochelys caretta.*
Hawksbill		*Chelonia inbricata.*
Snapping	Hard shell, alligator turtle	*Chelydra serpentina.* *Macrochelys lacertina.*
Soft shell		Trionyx species.
Frog		Rana species.
Irish moss		*Chrondrus crispus.*
Kelp		Macrocystis species; Nerocystis species; Pelagophycus species; Alaria species.
Bloodworm		*Glycera dibranchiata.*
Sandworm		*Nereis virens.*
Sponge:		
Glove		*Spongia graminea* (Hyatt) *Euspongia officianalis* (L.).
Grass		*Hippospongia equina cerebriformis.*
Sheepswool		*Hippospongia canaliculata gossypina.*
Yellow		*Hippospongia equina elastica.*
Trepang	Sea cucumber	*Cucumaris frondosa.* *Thyone briareus.*

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